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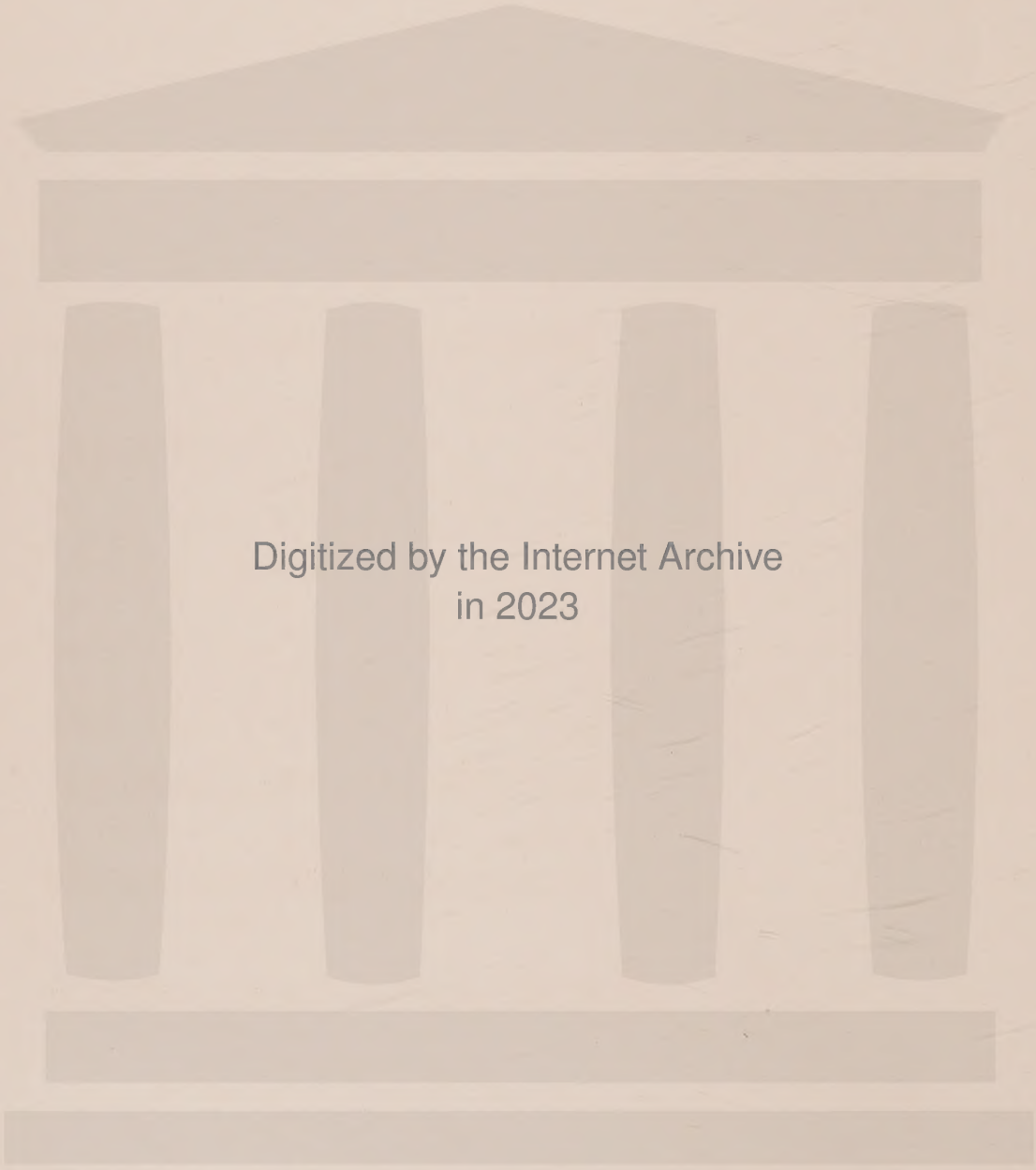
Vol. 23E
1966
Indexes



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Review of METAL LITERATURE

Volume 23E • 1966 • Indexes

Prepared by the Staff of the Documentation Service
American Society for Metals • Metals Park, Ohio

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PREFACE TO VOLUME 23E

The ASM *Review of Metal Literature* contains abstracts of the world's scientific, engineering and technical literature concerned with the production, properties, fabrication and applications of metals, their alloys and compounds. This annual volume is issued in five parts, each separately bound. Parts A through D contain the abstracts included in subject categories 01 through 06 (Part A), 07 through 12 (Part B), 13 through 16 (Part C), and 17 through 20 (Part D). Detailed subject coverage of these categories is given in the Table of Contents for each book.

Part E (this book) contains subject index, author index, addresses of publications, and translation sources.

The subject index is computer-generated and based on thesaurus control. Each index entry is accompanied by the complete title of the reference rather than the serial number alone. Thus, searching of the index will immediately tell the searcher whether or not the abstract is likely to be of interest to him.

For most effective use of the index, its introduction should be carefully read. It includes an explanation of the abstract numbering system which tells how to locate the abstracts in Parts A, B, C and D.

The ASM Photocopy Service furnishes copies of complete articles on demand. Exceptions—material not available from the Photocopy Service—are government, classified, or commercial translators' work, articles from journals forbidden to be reproduced because of copyright restrictions, and those abstracts identified by the symbol RZ. The list of addresses of publications is included so that copies can be requested directly from the publisher when photocopies are not available.

A list of translation sources is also included. These sources are noted in the abstract books, Parts A through D, by the word "translation" plus appropriate code symbols immediately following the serial number of the abstract. Individual articles or journals should be ordered from these sources as identified by these code numbers.

The subject indexing was performed by the Information Retrieval Staff of the ASM Documentation Service under the direction of John C. Rowe. Assisting were: John Adams, Carol Auten, Donald Butler, M. Jean Caulkins, John Cory, Lawrence J. Irwin, Edwin A. Moss, Robert Nasal, Dexter Seifert, G. B. Singh, Alexander Stowba, Harrison J. Straw, and Arthur J. Sullivan.

The computer indexing system was developed by the Systems Staff of the ASM Documentation Service under the direction of Clayton A. Shepherd, Assistant Director, Documentation Service, and Brice Carter, Jr., Manager of Systems and Programming.

The list of publications was compiled by Barbara Ladd, ASM Librarian.

Marjorie R. Hyslop
Editor

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Section 10. HEAT TREATING 753B
Homogenization; austenitizing; annealing; normalizing; quenching; precipitation hardening; case hardening; carburizing; tempering; stress relief and stress control; induction, flame, fused-bath and controlled atmosphere methods; carbon restoration; decarburization; hardenability.

Section 11. JOINING 827B
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Section 15. PHYSICAL PROPERTIES AND THEIR MEASUREMENT 1495C
Mass and volume; thermal properties; thermodynamics and kinetics; electrical and electrochemical properties; optical properties; magnetism and magnetic properties.

Section 16. ATOMIC AND NUCLEAR PHYSICS 1683C
Atomic and molecular structure; quantum theory; energy levels; band theory; zone theory; radioactivity and nuclear reactions; electronic devices (such as diodes, rectifiers, transistors, and optical, photoelectric, paramagnetic, ferrite, superconductive and semiconductive devices) and their inherent properties; irradiation and space environmental effects.

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Section 17. MECHANICAL PROPERTIES AND TESTS 1785D
Elastic and plastic properties; plastic deformation; stresses; fracture; tensile properties and tests; compression; torsion; shear; creep; bend; fatigue; dampening; wear.

Section 18. CORROSION 2113D
Mechanism of corrosion; corrosive effects; stress-corrosion; corrosion fatigue; intergranular pitting and graphitic corrosion; cavitation; oxidation; tarnishing; atmospheric corrosion; corrosion by waters; by chemicals; by soils; preventive measures; tests.

Section 19. INSPECTION AND CONTROL 2237D
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ADDRESSES OF PUBLICATIONS

A list of the primary journals from which abstracts are taken.

A photocopy form for ordering copies of most articles is printed in each monthly issue of Review of Metal Literature (see contents for page numbers).

Abstracts marked RZ in the citation may be requested by writing to: Referativnyi Zhurnal — Metallurgiya, Proizvodstvenno-Izd., Kominat VINITI, Baltiiskaya ul 14, Moscow, USSR.

A listing of journal title abbreviations used in the abstracts follows the address list (page 17).

A

Abehandlungen de Braunschweigischen Wissenschaftlichen Gesellschaft--Friedr. Vieweg and Sohn, Braunschweig, Germany

Abrasive Systems--Abrasive Div., Carborundum Co., Niagara Falls, N. Y.

l'Academie Polonaise des Sciences, Bulletin--Panstwowe Wydawnictwo Naukowe, Dzial Czasopism, Miodawa 10, Warsaw 1, Poland

Academie Royal des Sciences d'Outre-mer, Bulletin des Seances--80A rue de Livourne, Brussels 5, Belgium

l'Acciaio Inossidabile--viale Lancetti 36, Milan, Italy

Achats et Entretein de Materiel Industriel l'Industrie Francais--les Nouvelles du Monde, 6 rue de Liege, Paris 9^{e}, France

Acier-Stahl-Steel--47 rue Montoyer, Brussels 4, Belgium

Aciers Fins et Speciaux Francais--12 rue de Madrid, Paris 8^{e}, France

Acoustical Society of America, Journal--American Institute of Physics, Inc., 335 E. 45th St., New York, N. Y. 10017

ACS Journal--American Chemical Society, 1155 16th St. N.W., Washington, D.C. 20036

Acta Chemica Scandinavica--Gunnar Neumuller, Suevagen 166, Stockholm, Sweden

Acta Chimica (Academiae Scientiarum Hungarica)--P.O. Box 24, Budapest 502, Hungary

Acta Cientifica Venezolana--Asociacion Venezolana para el Avance de la Ciencia, Libreria de O.B.E., Ciudad Universitaria, Caracas, Venezuela

Acta Crystallographica--Norregade 6, Copenhagen, Denmark

Acta Metallurgica--Pergamon Press, Inc., 122 E. 55th St., New York, N. Y. 10022

Acta Metallurgica Sinica--117 Chao. Yang Meng St., Peking, China

Acta Physica (Academiae Scientiarum Hungarica)--Alkotmany ul. 21, Budapest, Hungary

Acta Physica Austriaca--Springer-Verlag, Molkerbastei 5, Vienna 1, Austria

Acta Physica Polonica--ul. Wilcza 46, Warsaw 10, Poland

Acta Physica Sinica--Chinese Physical Society, No. 42, Tung Hwang Ching Chen, Peking, China

Acta Polytechnica Scandinavica--Denmark: Danmarks Tekniske Bibliotek, Lyngby Department, Lundtoftevej 100, Kgs. Lyngby, Denmark--Finland: State Institute for Technical Research, Technical Information Service, Lonnrotinkatu 37, Helsinki, Finland--Norway: Norges Tekniske Hgskole, Hovedbiblioteket, Trondheim, Norway

Actual Specifying Engineer--Domestic Engineering Co., 1801 Prairie Ave., Chicago, Ill. 60616

Adhasion--Kochstr. 50, 1 Berlin 61, Germany

Adhesives Age--101 W. 31st St., New York, N. Y. 10001

Advanced Energy Conversion--Pergamon Press, 122 E. 55th St., New York, N. Y. 10022

Advanced Materials Technology--Carborundum Co., Niagara Falls, N. Y.

Advances in Chemistry Series--American Chemical Society, 1155 16th St. N.W., Washington, D.C. 20036

Advances in Physics--Taylor & Frances Ltd., 18 Red Lion Court, Fleet St., London EC4, England

AE-Arma Engineering--American Bosch Arma Corp., Garden City, N. Y.

AEI Engineering--Associated Electrical Industries Ltd., 33 Grosvenor Place, London SW1, England

Aeronautical Quarterly--Royal Aeronautical Society, 4 Hamilton Place, London W1, England

AGARD Reports--North Atlantic Treaty Organization, 64 rue de Varenne, Paris 7^{e}, France

AIAA Journal--American Institute of Aeronautics & Astronautics, 1290 Ave. of the Americas, New York, N.Y. 10019

AIChE Journal--345 E. 47th St., New York, N. Y. 10017

AIME Metallurgical Society, Transactions--345 E. 47th St., New York, N. Y. 10017

AIME Society of Mining Engineers, Transactions--345 E. 47th St., New York, N. Y. 10017

Air Force Magazine/Space Digest--Air Force Assoc., 1901 Pennsylvania Ave. N.W., Washington, D.C. 20006

Aircraft Engineering--Bunhill Publications Ltd., 12 Bloomsbury Sq., London WC1, England

AJOUR-Teknisk Informasjon--Studieselskapet for Norsk Industri, Forskningsueien 1, Oslo, Norway

Allgemeine und Praktische Chemie--Jakobergasse 4, A-1010, Vienna, Austria

Allgemeine Warmetechnik--Zeitschrift fur Warme und Kaltetechnik, Postfach 191, Frankfurt-Hoechst 16, Germany

Allis-Chalmers Electrical Review--Allis-Chalmers Manufacturing Co., Milwaukee, Wis. 53201

Alloy Digest--Engineering Alloys Digest, Inc., P.O. Box 15 , Upper Montclair, N.J. 07043

Alloy Metals Review--Widnes, Lancashire, England

Alluminio--Rivista della Nuova Metallurgia, via S. Giovanni sul Muro, Milan 9, Italy

Aluminium--Aluminium-Verlag GmbH, 4 Dusseldorf 10, Jagerhofstr., 29 Germany

Aluminium Abstracts--CIDA (Centre International de Developpement de l'Aluminium, 6 ave. Bertie Albrecht, Paris 8^{e}, France

Aluminium Courier--Aluminium Development Assoc., 33 Grosvenor St., London W1, England

Aluminum Bulletin--Aluminum Assoc., Press Div., 420 Lexington Ave., New York, N. Y. 10017

Aluminum Co. of America, Technical Papers--Research Laboratories, P.O. Box 772, New Kensington, Pa. 15068

Aluminum World--Australian Trade Publications Pty. Ltd., 243 Elizabeth St., Sidney, Australia

American Bureau of Metal Statistics--50 Broadway, New York, N. Y. 10004

American Ceramic Society, Bulletin--4055 N. High St., Columbus, Ohio 43214

American Ceramic Society, Journal--4055 N. High St., Columbus, Ohio 43214

American Gas Journal--Petroleum Engineer Publishing Co., 52 Vanderbilt Ave., New York, N. Y. 10017

American Electroplaters Society, Inc., Technical Proceedings--443 Broad St., Newark, N.J. 07102

American Foundrymen's Society, Transactions--Golf & Wolf Rd., Des Plaines, Ill. 60016

American Iron and Steel Institute, Papers--150 E. 42nd St., New York, N. Y. 10017

American Journal of Physics--American Institute of Physics, Inc., 335 E. 45th St., New York, N. Y. 10017

American Machinist/Metalworking Manufacturing--McGraw-Hill Publishing Co., 330 W. 42nd St., New York, N. Y. 10036

American Nuclear Society, Transactions--244 E. Ogden Ave., Hinsdale, Ill. 60521

American Petroleum Institute, Proceedings--1271 Ave. of the Americas, New York, N.Y. 10020

American Physical Society Bulletin--Columbia University, New York, N. Y. 10027

American Scientist--51 Prospect St., New Haven, Conn. 06511

American Society of Civil Engineers, Proceedings--345 E. 47th St., New York, N.Y. 10017

American Society of Lubrication Engineers, Preprints--838 Busse Highway, Park Ridge, Ill. 60068

American Waterworks Assoc., Journal--2 Park Ave., New York, N. Y. 10016

Ampco Welding News--Ampco Metal, Inc., 1745 S. 38th St., Milwaukee, Wis. 53215

Analytical Abstracts--W. Heffer & Sons, Ltd., Cambridge, England

Analyst--W. Heffer & Sons, Ltd., Cambridge, England

Analyzer--Beckman Scientific & Process Instruments Div., 2500 Fullerton Rd., Fullerton, Calif. 92634

Annalen der Physik--Johann Ambrosius Barth, Salomonstr. 18B, Leipzig C1, Germany

Annales de Chimie--Librairie Masson et Cie., 120 boul. St-Germain, Paris 6^{e}, France

Annales de Physique--Masson & Cie., 120 boul. St-Germain, Paris 6^{e}, France

Annales des Falsifications et de l'Expertise Chimique, 18 ave. de Villars, Paris 7^{e}, France

Annals of Physics--Academic Press, 111 Fifth Ave., New York, N. Y. 10003

Anti-Corrosion--Grampian Press Ltd., The Tower, 229-243 Shepherds Bush Rd., London W6, England

Application and Industry--Institute of Electrical and Electronics Engineers, Box A, Lenox Hill Station, New York, N. Y.

Applied Magnetics--Indiana Steel Products Co., Valparaiso, Ind. 46383

Applied Materials Research--Plenum Press, 227 W. 17th St., New York, N. Y. 10011

Applied Mechanics Reviews--345 E. 47th St., New York, N. Y. 10017

Applied Optics--Optical Society of America, 1155 16th St. N.W., Washington, D.C. 20036

Applied Physics Letters--American Institute of Physics, Dept. S, 335 E. 45th St., New York, N. Y. 10017

Applied Scientific Research--Martinus Mijhoff, 9 Lange Voorhout, The Hague, Netherlands

Applied Spectroscopy--Society for Applied Spectroscopy, P.O. Box 1228, 417 Cleveland Ave., Plainfield, N.J. 07060

Arbeitsgemeinschaft fur Forschung des Landes Nordrhein-Westfahlen--Westdeutscher Verlag, Ophovenerstr. 1-3, Oplanden/Rhld. 22a, Germany

Archiv fur das Eisenhuttenwesen--Verlag Stahleisen GmbH, Postfach 8229, Breitestr. 27, 4 Dusseldorf 1, Germany

Archiv fur Elektrotechnik--Springer-Verlag, 175 Fifth Ave., New York, N. Y. 10010

Archiwum Automatyki i Telemechaniki--Polska Akademia Nauk, Swietolrzyska 21, pok oj 705, Warsaw, Poland

Archiwum Elektrotechniki--Naukowe, Miodowa 10, Warsaw, Poland

Archiwum Gornictwa--Polska Akademia Nauk, Komitet Gornictwa, ul. Mickiewicza 30, Cracow 2, Poland

Archiwum Hutnictwa--Export und Import-Unternehmen, ul. Wronia 23, Warsaw, Poland

Arizona Engineer and Scientist--Arizona Council of Engineering and Scientific Assoc., P.O. Box 1626, Scottsdale, Ariz. 85252

Arkiv for Fyski--Almqvist & Wiksell, Stockholm, Sweden

Asarco Digest--American Smelting & Refining Co., 120 Broadway, New York, N. Y. 10005

ASEA Journal--ASEA, Vasteras, Sweden

ASLE Transactions--American Society of Lubrication Engineers, 838 Busse Highway, Park Ridge, Ill. 60068

ASM Technical Reports--American Society for Metals, Metals Park, Ohio 44073

ASM Transactions Quarterly--American Society for Metals, Metals Park, Ohio 44073

Assembly Engineering--Hitchcock Bldg., Wheaton, Ill. 60187

Association Francais des Techniques du Petrol --14 ave. de la Grande Armee, Paris 17^{e}, France

Assoc. of Bronze & Brass Founders Bulletin--69 Harborne Rd., Edgbaston, Birmingham 15, England

Association Quimica Argentina, Annales--Sanchez de Bustamante 1749, Buenos Aires, Argentina

ASTM Preprints--American Society for Testing and Materials, 1916 Race St., Philadelphia, Pa. 19103

ASTM Proceedings--1916 Race St., Philadelphia, Pa. 19103

ASTME Technical Papers--American Society of Tool and Manufacturing Engineers, 10700 Puritan Ave., Detroit, Mich. 48238

Astronautics and Aerospace Engineering--American Institute of Aeronautics and Astronautics, 20th & Northampton St., Easton, Pa. 18042

ATB Metallurgie--Revue Tijdschrift--9 rue de Houdain, Mons, Belgium

Atomic Energy Society of Japan Journal--Japan Atomic Energy Research Institute, No. 1-13, 1-chome Shimbashi, Minato-ku, Tokyo, Japan

Atomkernenergie--Verlag Karl Thiemig KG, Pilgersheimerstr. 38, Munich 9, Germany

Atompraxis--Verlag G. Braum GmbH, Karl-Friedrichstr. 14, Karlsruhe, Germany

Atomwirtschaft--Verlag Handelsblatt GmbH, 21 Kreuzstr., Dusseldorf, Germany

Australasian Corrosion Engineering--Australian Assoc. for Corrosion and Prevention, P.O. Box 250, N. Sydney, Australia

Australasian Engineer--116-126 Cleveland St., Chippendale, Sydney, Australia

Australasian Institute of Mining and Metallurgy, Proceedings--Osborne House, 399 Little Collins St., Melbourne, Australia

Australasian Manufacturer--Manufacturer Publishing Co. Pty. Ltd., Elizabeth St., N. Sydney, Australia

Australian Chemical Processing & Engineering --Lawson Press Pty. Ltd., 49 Clarence St., Sydney, Australia

Australian Institute of Metals Journal--23 McKillop St., Melbourne C1, Australia

Australian Journal of Applied Science--Commonwealth Scientific & Industrial Research Organ., 314 Albert St., E. Melbourne C2, Australia

Australian Journal of Chemistry--314 Albert St., E. Melbourne C2, Australia

Australian Journal of Physics--Commonwealth Scientific & Industrial Research Organ., 372 Albert St., E. Melbourne C2, Australia

Australian Journal of Science--Australian & New Zealand Assoc. for the Advancement of Science, 157 Gloucester St., Sydney, Australia

Australian Machinery & Production Engineering --Australian Trade Publications Pty. Ltd., 243 Elizabeth St., Sydney, Australia

Austrian Machinery and Steel Construction Review--Die Industrie Zeitschriftenverlag, Am Heumarkt 12, Vienna 3, Austria

Automatic Control--Reinhold Publishing Corp., 430 Park Ave., New York, N. Y. 10022

Automatic Machining--65 Broad St., Rochester, N. Y. 14614

Automatic Welding (English translation of Avtomaticheskaya Svarka)--British Welding Research Assoc., Abington Hall, Abington, Cambridge, England

Automation--Penton Publishing Co., Penton Bldg., Cleveland, Ohio 44113

Automation Progress--The Tower, Brook Green Rd., Mannersmith, London W6, England

Automobile Engineer--Iliffe Transport Publications Ltd., Dorset House, Stamford St., London SE1, England

Aviation Week--McGraw-Hill Publications, 330 W. 42nd St., New York, N. Y. 10036

Avtomaticheskaya Svarka--Institute Elektrosvarki, Akademie Nauk, USSR, Moscow, Russia

B

Ball Bearing Journal--Skefko Ball Bearing Co. Ltd., Luton, England

BWK (Brennstoff--Warme-Kraft)--VDI-Verlag GmbH, Bongardstr. 3, Dusseldorf, Germany

Bander Bleche Rohre--Michael Triltsch Verlag, Jahnstr. 36, Dusseldorf, Germany

Battelle Technical Review--Battelle Memorial Institute, 505 King Ave., Columbus, Ohio 43201

Baumaschine und Bautechnik--Kleine Wilhelmstr. 7, Wiesbaden, Germany

Bauplanung Bautechnik--VEB Verlag fur Bauwesen, Berlin, Germany

Bearing Engineer--Torrington Co., Bearings Div., Torrington, Conn. 06790

Bell Laboratories Record--Bell Telephone Laboratories, Inc., 463 West St., New York, N. Y. 10014

Bell System Technical Journal--American Telephone & Telegraph Co., 195 Broadway, New York, N. Y. 10007

Berg und Huttenmannische Monatsheft (der Montanistischen Hochschule in Leoben)--Springer-Verlag, Molkerbastei 5, Vienna 1, Austria

Bergakademie--Akademie-Verlag GmbH, Leipzigerstr. 3-4, Berlin W8, Germany

Bergbautechnik--Oranienburgerstr. 13-14, Berlin C2, Germany

Beton und Stahlbetonbau--Wilhelm Ernst & Sohn, Hohenzollerndamm 169, Berlin-Wilmersdorf, Germany

B.H.P. Technical Bulletin--Broken Hill Proprietary Co. Ltd., Essington Lewis House, 500 Bourke St., Melbourne C1, Australia

Birmingham Metallurgical Society, Journal--Dept. of Physical Metallurgy, The University, Edgbaston, Birmingham 15, England

Blast Furnace and Steel Plant--Steel Publications, Inc., 624 Grant Bldg., Pittsburgh, Pa. 15230

Blech--Prost & Meiner-Verlag, Coburg/Bayern 13a, Germany

Braunkohle--Verlag Die Braunkohle, Dusseldorf N, Germany

British Ceramic Society, Transactions--Shelton House, Stoke-on-Trent, England

British Chemical Engineering--Heywood & Co. Ltd., Drury House, Russel St., London WC2, England

British Communications and Electronics--Heywood & Co. Ltd., Carlton House, Great Queen St., London WC2, England

British Corrosion Journal--British Joint Corrosion Group, 14 Belgrave Sq., London SW1, England

British Foundryman--Institute of British Foundrymen, 137-139 Euston Rd., London NW1, England

British Institution of Radio Engineers, Journal --9 Bedford Sq., London WC1, England

British Iron and Steel Research Association Publications--24 Buckingham Gate, London SW1, England

British Journal of Applied Physics--Institute of Physics, 47 Belgrave Sq., London SW1, England

British Journal of Applied Science--Institute of Physics and the Physical Society, 47 Belgrave Sq., London SW1, England

British Journal of Nondestructive Testing--10 Chalfont Close, Leigh-on-Sea, Essex, England

British Machine Tool Engineering--17 Grosevenor Gardens, London SW1, England

British Steelmaker--7 Chesterfield Gardens, Curzon St., Mayfair, London W1, England

British Welding Journal--54 Princes Gate, Exhibition Rd., London SW7, England

Brown Boveri Mitteilungen--Brown, Boveri and Co. Ltd., Baden, Switzerland

Brutcher, Henry Translations--P.O. Box 157, Altadena, Calif. 91001

Building With Steel--British Constructional Steelworks Assoc., Artillery House, Artillery Row, London SW1, England

Buletinul Institutului Politehnic din Iasi--Calea 23 August, 11, Iasi, Rumania

Bulletin de Microscopie Appliquee--Editions de la Revue d'Optique, 3-5 boul. Pasteur, Paris 15e, France

Bureau of Ships, Journal--U.S. Navy Dept., Supt. of Documents, Washington, D.C. 20402

C

Calore--Istituto Propaganda Internazionale, via Friull 32, Milan, Italy

Cambridge Philosophical Society, Proceedings--Cambridge University Press, 200 Euston Rd., London NW1, England

Canada's Machine Production--341 Church St., Toronto 2, Ont., Canada

Canadian Ceramic Society, Journal--Canadian Ceramic Society, 49 Turner Rd., Toronto, Ont., Canada

Canadian Chemical Processing--Southam Business Publications Ltd., 1450 Don Mills Rd., Don Mills, Ont., Canada

Canadian Dept. of Mines & Technical Surveys Publications--National Research Council, Ottawa 2, Ont., Canada

Canadian Journal of Chemical Engineering--Chemical Institute of Canada, 48 Rideau St., Ottawa 2, Ont., Canada

Canadian Journal of Chemistry--National Research Council, Ottawa 7, Ont., Canada

Canadian Journal of Physics--National Research Council, Ottawa 7, Ont., Canada

Canadian Machinery and Manufacturing News--MacLean-Hunter Publishing Co. Ltd., 481 University Ave., Toronto 2, Ont., Canada

Canadian Machinery and Metalworking--MacLean-Hunter Publishing Co. Ltd., 481 University Ave., Toronto 2, Ont., Canada

Canadian Metallurgical Quarterly--Mines Branch, Dept. of Mines & Technical Surveys, Ottawa, Ont., Canada

Canadian Metalworking--1450 Don Mills Rd., Don Mills, Ont., Canada

Canadian Mining and Metallurgical Bulletin--Canadian Institute of Mining and Metallurgy, 906 Drummond Bldg., Montreal 2, P.Q., Canada

Canadian Mining Journal--National Business Publications Ltd., Gardenvale, P.Q., Canada

Canadian Mining Manual--National Business Publications Ltd., Gardenvale, P.Q., Canada

Canadian Operational Research Society Newsletter, University of Toronto, Toronto, Ont., Canada

Canadian Welder and Fabricator--365 Bannatyne Ave., Winnipeg 2, Man., Canada

Cast Iron Pipe News--Suite 3440, Prudential Plaza, Chicago, Ill. 60601

Cast Metals Research Quarterly--American Foundrymen's Society, Golf and Wolf Rd., Des Plaines, Ill. 60016

Castings--Wingello House, Angel Place, Sydney, Australia

CEBELCOR Technical Reports--24 rue des Chevaliers, Brussels 5, Belgium

CEP (Chemical Engineering Progress)--American Institute of Chemical Engineers, 345 E. 47th St., New York, N. Y. 10017

Ceramic Age--Ceramic Publications, Inc., 2728 Euclid Ave., Cleveland, Ohio 44115

Ceramic Industry--Industrial Publications, Inc., 5 S. Wabash Ave., Chicago, Ill. 60603

Ceramics--Arrow Press Ltd., 65 Turnmill St., London EC1, England

Chaleur et Industrie--2 rue des Tanneries, Paris 13e, France

Chartered Mechanical Engineer-Institute of Mechanical Engineers, 1 Birdcage Walk, Westminster SW1, England

Chemical Age--Bouverie House, 154 Fleet St., London EC4, England

Chemical and Engineering News--American Chemical Society, 1155 Sixteenth St. N.W., Washington, D.C. 20036

Chemical Engineering--McGraw-Hill Publications, 330 W. 42nd St., New York, N. Y. 10036

Chemical Products--John Trundell Ltd., St. Richard's House, Eversholt St., London NW1, England

Chemical Reviews--American Chemical Society, 1155 Sixteenth St. N.W., Washington, D.C. 20036

Chemical Society, Journal--Burlington House, Piccadilly, London W1, England

Chemical Society, Proceedings--Burlington House, Piccadilly, London W1, England

Chemical Week--McGraw-Hill Publications, 330 W. 42nd St., New York, N. Y. 10036

Chemicke Listy--Ceskoslovenska Spolecnost Chemicka Pri Csav, Vodiskova 40, Prague 1, Czechoslovakia

Chemicky Prumysl--Spalena 51, Prague 2, Czechoslovakia

Chemie fur Labor & Betrieb--Umschau Verlag, Stuttgarterstr. 20-24, Frankfurt am Main, Germany

Chemie-Ingenieur-Technik--Verlag Chemie GmbH, Pappelallee 3, Weinheim/Bergstr., Germany

Chemiker Zeitung/Chemische Apparatur--Alfred Huthig Verlag, Wilckenstr. 3-5, Heidelberg, Germany

Chemische Industri--Verlag Handelsblatt GmbH, Kreuzestr. 21, Dusseldorf, Germany

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Pratiques des Industries Mecaniques--92 rue Bonaparte, Paris 6e, France

Precision Metal Molding--812 Huron Rd., Cleveland, Ohio 44115

Process Control and Automation--30 Furnival St., London EC4, England

Product Engineering--330 W. 42nd St., New York, N.Y. 10018

Product Finishing--4 Ludgate Circus, London EC4, England

Production--Box 1, Birmingham, Mich. 48012

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Scientific American--415 Madison Ave., New York, N.Y. 10017

Scientific Lubrication--Scientific Publications, Broseley, Shropshire, England

Seifen, Ole, Fette, Wachse--H. Ziolkowsky KG, Beethovenstr. 16, Augsburg, Germany

Semiconductor Products--300 W. 43rd St., New York, N.Y. 10036

Sheet Metal Industries--John Adam House, 17-19 John Adam St., Adelphi, London WC2, England

Siemens Review--Werner-von-Siemensstr. 50, Erlangen, Germany

Siemens Zeitschrift--Werner-von-Siemensstr. 50, Erlangen, Germany

Silicates Industriels--13 rue de Poissonniers, Brussels, Belgium

Silikattechnik--VEB Verlag fur Bauwesen, Berlin, Germany

Slevarenstvi--Ministerstvo Tezkeho Strojirenstvi, Prague, Czechoslovakia

SNTL Technical Digest--Spalena 51, Prague 1, Czechoslovakia

Societe Chimique de France, Bulletin--120 boul. St.-Germain, Paris 6e, France

Societe Francaise de Ceramique, Bulletin--44 rue Copernic, Paris 16e, France

Societe Francaise de Mineralogie et de Cristallographie--120 boul St.-Germain, Paris 6e, France

Societe Royale Belge des Ingenieurs et des Industriels, Revue--3 rue Ravenstein, Brussels 1, Belgium

Societes Chimiques Belge, Bulletin--50 ave. Franklin Roosevelt, Brussels, Belgium

Society of Plastics Engineers, Journal (SPE Journal)--65 Prospect St., Stamford, Conn. 06902

Society of Plastics Engineers, Transactions (SPE Transactions)--65 Prospect St., Stamford, Conn. 06902

SOFRESID--26 boul. de Vaugirard, Paris 15e, France

Solid-State Communications--Pergamon Press Ltd., 122 E. 55th St., New York, N.Y. 10022

Solid-State Electronics--Pergamon Press Ltd., 122 E. 55th St., New York, N.Y. 10022

Soudage et Techniques Connexes--32 boul. de la Chapelle, Paris 18e, France

South African Engineer--66 Commissioner St., Johannesburg, South Africa

South African Industrial Chemist--Box 704, Johannesburg, South Africa

South African Institute of Mining and Metallurgy Journal--P. O. Box 1183, Kelvin House, Holland & Marshall St., Johannesburg, South Africa

South African Mechanical Engineer--S. A. Institution of Mechanical Engineers, 2 Hollard St., Johannesburg, South Africa

South African Mining & Engineering Journal--66 Commissioner St., Johannesburg, South Africa

South Wales Institute of Engineers, Proceedings --Park Place, Cardiff, Wales

Southern Power and Industry--1760 Peachtree Rd. N.W., Atlanta, Ga. 30309

Soviet Journal of Non-Ferrous Metals (English translation of Tsvetnye Metally)--Primary Sources, 11 Bleecker St., New York, N.Y. 10012

Soviet Physics-Crystallography (English translation of Kristallografiya)--American Institute of Physics, 335 E. 45th St., New York, N.Y. 10017

Soviet Physics-JETP (English translation of the Journal of Experimental and Theoretical Physics of the Academy of Sciences of the USSR)--American Institute of Physics, 335 E 45th St., New York, N.Y. 10017

Soviet Physics-Solid State (English translation of Fizika Tverdogo Tela)--American Institute of Physics, 335 E. 45th St., New York, N.Y. 10017

Soviet Physics-Technical Physics (English translation of Zhurnal Tekhnicheskoi Fizik)--American Institute of Physics, 335 E. 45th St., New York, N.Y. 10017

Space/Aeronautics--205 E. 42nd St., New York, N.Y. 10017

Spaceflight--British Interplanetary Society, 12 Bessborough Gardens, London SW1, England

Special Steel--Special Steel Assoc. of Japan, No. 5, 2-chome Binza, Chuo-ku, Tokyo, Japan

Spectrochimica Acta--Pergamon Press Ltd., 122 E. 55th St., New York, N.Y. 10022

Sperryscope--Sperry Rand Corp., 30 Rockefeller Plaza, New York, N.Y. 10020

Sprechsaal fur Keramik-Glas-Email--Mauer 2, Postfach 401, Coburg (Bayern), Germany

SRI Journal--Stanford Research Institute, Menlo Park, Calif. 94025

Stahl und Eisen--Postfach 8229, Breitestrs 27, Dusseldorf, Germany

Stahlbau--Hohen-Zollerndamm 169, Berlin-Wilmersdorf, Germany

Stainless Steel Architectural Data Sheets--Committee of Stainless Steel Producers, American Iron and Steel Institute, 150 E. 42nd St., New York, N.Y. 10017

Stainless Steel Architectural Quarterly--American Iron and Steel Institute, 150 E. 42nd St., New York, N.Y. 10017

Stal'--Gosudarstvennoe Nauchno-Tekhnicheskoe, Izd. Literatury po Chernoi i Tsvetnoi Metallurgii, Moscow, USSR

Stal' (English translation of Stal')--Iron and Steel Institute, 4 Grosvenor Gardens, London SW1, England

Staub--Bongardstr. 3, Dusseldorf, Germany

Steel--1213 W. 3rd St., Cleveland, Ohio 44113

Steel Facts--American Iron and Steel Institute, 150 E. 42nd St., New York, N.Y. 10017

Steel Horizons--Allegheny Ludlum Steel Corp., Oliver Bldg., Pittsburgh, Pa. 15222

Steel Review--British Iron & Steel Federation, Steel House, Tothill St., London SW1, England

Steel Times--John Adam House, 17-19 John Adam St., Adelphi, London WC2, England

Steelways--American Iron and Steel Institute, 150 E. 42nd St., New York, N.Y. 10017

Strojirenstvi--Statni Nakladatelstvi Technicke Literatury, 51 Spalena, Prague 1, Czechoslovakia

Structural Engineer--11 Upper Belgrave St., London SW1, England

Studii si Cercetari de Chimie--Editura Academie Republique Populare Romane, Bucarest, Rumania

Studii si Cercetari de Mecanica Aplicate--Institutul de Mecanica Aplicata, 15 rue Const. Mille, Bucharest, Rumania

Studii si Cercetari de Metalurgie--Academia Republicii Populare Romine, Centrul de Cercetari Metalurgice, Str. Foisor 41, Bucharest, Rumania

STZ-Schweizerische Technische Zeitschrift--Gotthardstr. 61, Zurich 27, Switzerland

Sulzer Technical Review--Sulzer Brothers Ltd., Winterthur, Switzerland

Sumitomo Light Metals Technical Reports--Sumitomo Metal Industries, Ltd., 31, Kawaramachi 4-chome, Higashi-ku, Osaka, Japan

Sumitomo Metals--31, Kawaramachi 4-chome, Higashi-ku, Osaka, Japan

Suomen Kemistilehti--Suomalisten Kemistien Sevra, Fil, kand. Pentti, P.O. Box 5041, Helsinki, Finland

Surface Science--North-Holland Publishing Co., P.O. Box 103, Amsterdam, Netherlands

Svarochnoe Proizvodistvo--Gosudarstvennoe Nauchno-Tekhnicheskoe, Izd. Mashinostroitel'noi Literatury, Moscow, USSR

Svensk Kemisk Tidskrift--Svenska Kemistsamfundet, Karolinska Institute, Stockholm 60, Sweden

Svetsen--Svetstekniska Foreningen, IVA, Box 5073, Stockholm 5, Sweden

Swiss Technics--Swiss Office for the Development of Trade, ave. Bellefontaine 17, Lausanne, Switzerland

T

Tech Engineering News--Massachusetts Institute of Technology, Walker Memorial, Cambridge, Mass. 02139

Technica--Birkhauser Verlag, Elisabethenstr. 19, Basel, Switzerland

Tecnica Metalurgica--Paseo de Gracia 50, Barcelona, Spain

Technical Report--British Engine Boiler & Electrical Insurance Co. Ltd., Longridge House, Manchester 4, Englan

Technik--Oranienburgerstr. 13-14, Berlin C2, Germany

Technik und Betrieb--Rennweg 1, Vienna 3, Austria

Teknillisen Kemian Aikakauslehti--Central Chemical Assoc., Helsinki, Finland

Technion Review--Israel Institute of Technology, 1000 Fifth Ave., New York, N.Y. 10028

Technique Moderne--16 boul. St.-Germain, Paris 5e, France

Technique et Science Aeronautiques et Spatiales--Assoc. Francaise des Ingenieurs et Technicians de l'Aeronautique, 6 rue Cimarosa, Paris 16e, France

Technische Mitteilungen--Postfach 1815, Essen, Germany

Technische Mitteilungen Krupp-Werksberichte--Postfach 10, 43 Essen 1, Germany

Technische Uberwachung--Postfach 10250, 4 Dusseldorf 10, Germany

Technology Week--1001 Vermont Ave. N.W., Washington, D.C. 20005

Teknisk-Tidskrift--Box 841, Stockholm 1, Sweden

Teknisk Ukeblad--Ingeniorenes Hus, Oslo 9, Norway

Termotecnica--via Marconi 15, Milan, Italy

Tetsu-to-Hagane--Iron and Steel Institute of Japan, Keidanren Kaikan, No. 5, Otemachi 1-chome, Chiyoda-ku, Tokyo, Japan

33-Magazine of Metals Production--Opec, Inc., 24 Commerce St., Newark, N.J. 07102

Tidsskrift for Kjemi, Bergvesen og Metallurgi--Teknisk Ukeblad Ekspedisjon, Kronprinsensgt. 17, Oslo, Norway

Tidskriften Verkstaderna--Storgatan 3, Stockholm, Sweden

Tin and Its Uses--Tin Research Institute, Fraser Rd., Perivale, Greenford, Middlesex, England

Tisco--Journal of the Tata Iron & Steel Co., Ltd., Jamshedpur, India

Titanium Metals Corp. of America Publications--233 Broadway, New York, N.Y. 10007

Tokai Technological Journal--Technical Research Laboratory, Tokai Electrode Mfg. Co. Ltd., Daigiri, Fujisawa City, Japan

Tohoku University Science Reports of the Research Institute--Sendai, Japan

Tohoku University, Technology Reports--Faculty of Engineering, Sendai, Japan

Tokyo Institute of Technology, Bulletin--Oh-Okayama, Meguro-ku, Tokyo, Japan

Tokyo Metropolitan University, Faculty of Technology, Memoirs--Dean of the Faculty of Technology, Tokyo, Japan

Tokyo University, Faculty of Engineering Journal, Annual Report--Tokyo University, Bunyko-ku, Tokyo, Japan

Tokyo University Institute of Industrial Science, Report--Azabu, Shinryudocho, Tokyo, Japan

Tonindustrie-Zeitung und Keramische Rundschau--Hermann Hubener Verlag KG, Postfach 68, Goslar, Germany

Tool and Manufacturing Engineer--American Society of Tool Engineers, 20501 Ford Rd., Dearborn, Mich. 48127

Tooling & Production--1975 Lee Rd., Cleveland, Ohio 44118

Traitements de Surface--8 rue Jean-Goujon, Paris 8e, France

Traitement Thermique--254 rue de Vaugirard, Paris 15e, France

Trattamenti dei Metalli--via Savona 142, Milan, Italy

Trempe--7 rue Ampere, Puteaux (Seine), France

Tsvetnye Metally--Gosudarstvennoe Nauchno-Tekhnicheskoe, Izd. Literatury po Chernoi i Tsvetnoi Metallurgii, Moscow, USSR

TA fur Praktische Metallbearbeitung--Waldburgstr. 123, Postfach 90, 7 Stuttgart-Vaihingen, Germany

U

Ultrasonic News--37 Brownhouse Rd., Stamford, Conn. 06902

Ultrasonics--Dorset House, Stamford St., London SE1, England

Union Carbide Metals Review--30 E. 42nd St., New York, N.Y. 10017

U.S. Steel Quarterly--United States Steel Corp., 71 Broadway, New York, N.Y. 10006

Universidad Industrial de Santander, Revista--Dept. of Publicaciones Cientificas e Intercambios, Investigaciones Cientificas, Bucaramanga, Columbia

Usine Nouvelle--15 rue Bleue, Paris 9e, France

V

VDI-Berichte--Dusseldorf 10, Germany

VDI-Zeitschrift--Bongardstr. 3, Dusseldorf, Germany

Vacuum--Pergamon Press, Headington Hill Hall, Oxford, England

Vakuum-Technik--Leibnizstr. 64, Berlin/Charlottenburg 2, Germany

Vancoram Review--Vanadium Corp. of America, 420 Lexington Ave., New York, N.Y. 10017

Vectors--Hughes Aircraft Co., Culver City, Calif.

Vide--147 ter A., boul. de Strasbourg, Nogent-sur-Marne, France

Vón Roll Mitteilungen--Louis de Roll Iron Works Ltd., Gerlafingen, Switzerland

W

Waseda University Castings Research Laboratory, Reports--500 Totsuka 1-chome, Shinjuku-ku, Tokyo, Japan

Washington State Institute of Technology, Bulletin--Technical Extension Services, Washington State University, Pullman, Wash. 99163

Wear-Usure-Verschleiss--P.O. Box 211, 335 Jan van Galenstraat, Amsterdam-W, Netherlands

Welder--Murex Welding Processes Ltd., Waltham Cross, Herts., England

Welding and Metal Fabrication--Dorset House, Stamford St., London SE1, England

Welding Design and Fabrication--812 Huron Rd., Cleveland, Ohio 44115

Welding Engineer--P.O. Box 28, Morton Grove, Ill. 60053

Welding Fabrication and Design--Australian Trade Publications, 243 Elisabeth St., Sydney, Australia

Welding Journal--American Welding Society, 345 E. 47th St., New York, N.Y. 10017

Welding Production (English translation of Svarochnoe Proizvodstvo)--British Welding Research Assoc., Abington Hall, Abington, Cambridge, England

Welding Research Council Bulletin--American Welding Society, Inc., 345 E. 47th St., New York, N.Y. 10017

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Welding Society Journal--29 Higashi Matsushitacho, Kanda, Chiyoda-ku, Tokyo, Japan

Werkstatt und Betrieb--Carl Hanser Zeitschriftenverlag GmbH, Munich 27, Germany

Werkstatt und Betrieb (with English translations)--Carl Hanser Zeitschriftenverlag GmbH, Munich 27, Germany

Werkstattstechnik--Heidelberger Platz 3, Berlin-Wilmersdorf, Germany

West of Scotland Iron & Steel Institute, Journal--39 Elmbank Crescent, Glasgow C2, Scotland

Western Machinery and Steel World--43 Cleveland St., San Francisco, Calif. 94103

Western Metalworking--2035 Miramar St., Los Angeles, Calif. 90057

Westinghouse Engineer--P.O. Box 2278, 3 Gateway Center, Pittsburgh, Pa. 15230

Westinghouse Technical Papers--P.O. 2278, Pittsburgh, Pa. 15230

Wild-Barfield Heat Treatment Journal--Watford By-pass, Watford, Herts., England

Wire and Wire Products--299 Main St., Stamford, Conn. 06901

Wire Industry--33 Furnival St., London EC4, England

Wire World International--28 Chapel Ash,

Wolverhampton, Manchester, England

Wissenschaftliche Zeitschrift der Humbaldt-Universitat zu Berlin--Bibliothek, Clara-Zetkinstr. 27, Berlin, Germany

Wissenschaftliche Zeitschrift der Martin-Luther-Universitat, Halle-Wittenberg--August-Bebelstr. 13, Halle, Germany

Wissenschaftliche Zeitschrift der Technischen Hochschuler fur Chemie--Technische Hochschule fur Chemie, Geusserstr., Merseburg, Germany

Wissenschaftlichen Zeitschrift--Technische Hochschule Otto von Guericke, Magdeburg Am. Krokentor 2, Germany

World Mining--45 rue de Livourne, Brussels 5 Belgium

World Oil--Gulf Publishing Co., Box 2608, Houston, Tex. 77001

WSU Technometer--Washington State University, Pullman, Wash. 99163

Y

Yawata Technical Report--Yawata Iron and Steel Co. Ltd., Tekko Bldg., No. 1, 1-chome, Marunouchi, Chiyoda-ku, Tokyo, Japan

Z

Zairyo (Journal of the Society of Materials Science)--Japan Publications Trading Co. Ltd., Central P.O. Box 722, Tokyo, Japan

Zavodskaya Laboratoriya--Gosudarstvennoe Nauchno-Tekhnicheskoe, Izd. Literatury po Chernoi i Tsvetnoi Metallurgii, Moscow, USSR

Zeitschrift fur Angewandte Mathematik und Physik--Birhauser Verlag, Basel 10, Switzerland

Zeitschrift fur Angewandte Physik--Heidelberger Platz 3, Berlin-Wilmersdorf, Germany

Zeitschrift fur Anorganische und Allgemeine Chemie--Salomonstr. 18 B, Leipzig C1, Germany

Zeitschrift fur Chemie--Karl-Heinestr. 27, Leipzig W31, Germany

Zeitschrift fur Elektrochemie-Weinheim/Bergstr., Germany

Zeitschrift fur Erzbergbau & Metallhuttenwesen--Morikestr. 17, Stuttgart 5, W. Germany

Zeitschrift fur Instrumentenkunde--Burgplatz 1, Braunschweig, Germany

Zeitschrift fur Kristallographie--Cronstettenstr. 6a, Frankfurt-am-Main, Germany

Zeitschrift fur Metallkunde--Max-Planck-Institut, Seestr. 92, 7000 Stuttgart 1, Germany

Zeitschrift fur Naturforschung--Uhlandstr. 11, Tubingen, Germany

Zeitschrift fur Physik--Heidelberger Platz 3, Berlin-Wilmersdorf, Germany

Zeitschrift fur Physikalische Chemie--Sternwartenstr. 8, Leipzig C1, Germany

Zeitschrift fur Schweisstechnik (Journal de la Soudure)--Stauffacherquai 36, Zurich 1, Switzerland

Zvaranie--Ministerstvo Hutneho Priemyslu a Rudnychbani, Vyskumny Ustav Svaracsky, Bratislava, Czechoslovakia

TRANSLATIONS

English translations of some foreign language articles and journals are available from commercial translation sources. These sources are indicated by the word "Translation" plus appropriate code letters immediately following the serial number of the abstract. Individual articles or journal subscriptions should be ordered from the sources, as indicated by the code letters.

The symbol RZ following the language designation in certain abstracts indicates that the abstract is translated directly from the Russian abstracting journal Referativnyi Zhurnal—Metallurgiya.

ActaMet
44-01 21st St., Long Island City, N.Y. 11101

AIP—American Institute of Physics, Inc.
57 East 55th St., New York 22, N.Y.

BCIRA—British Cast Iron Research Assoc.
Bordesley Hall, Alvechurch, Birmingham, England

BISI—British Iron and Steel Industry Translation Service
Iron and Steel Institute
4 Grosvenor Gardens, London S.W. 1, England

Brutcher—Henry Brutcher Translations
P.O. Box 157, Altadena, Calif.

BWRA—British Welding Research Assoc.
29, Park Crescent, London W. 1, England

ConBur—Consultants Bureau, Inc.
227 West 17th St., New York 11, N.Y.

ISA—Instrument Society of America
530 Wm. Penn Place, Pittsburgh 19, Pa.

ISI—Iron and Steel Institute
4 Grosvenor Gardens, London S.W. 1, England

OSA—Optical Society of America
1155 16th St., N.W., Washington 6, D.C.

Pergamon—Pergamon Press, Inc.
44-01 21st St., Long Island City, N.Y. 11101
(Headington Hill Hall, Oxford, England)

PrimSources—Primary Sources
11 Bleecker St., New York 12, N.Y.

RZ—Referativnyi Zhurnal—Metallurgiya
Proizvodstvenno-Izd., Kombinat VINITI,
Baltiiskaya ul 14, Moscow, USSR

SIC—Scientific Information Consultants
661 Finchley Rd., London, N.W. 2, England

SLA—Special Libraries Assoc. Translation Center
John Crerar Library
35 West 33rd St., Chicago, Ill. 60616

JOURNAL TITLE ABBREVIATIONS

	A
Acciaio Inossidabile	l'Acciaio Inossidabile
Achats Entretein Mater Ind	Achats et Entretein de Materiel Industriel
Aciers Fins Spec	Aciers Fins et Speciaux
Acoust Soc Amer J	Acoustical Society of America Journal
ACS J	ACS Journal
Acta Chem Scand	Acta Chemica Scandinavica
Acta Chim (Hung)	Acta Chimica
Acta Cient Venezolana	Acta Cientifica Venezolana
Acta Crystallogr	Acta Crystallographica
Acta Met	Acta Metallurgica
Acta Met Sinca	Acta Metallurgica Sinca
Acta Phys (Hung)	Acta Physica (Academiae Scientiarum Hungarica
Acta Phys Austriaca	Acta Physica Austriaca
Acta Phys Pol	Acta Physica Polonica
Acta Phys Sinica	Acta Physica Sinica
Acta Polytech Scand	Acta Polytechnia Scandinavica
Acta Tech (Acad Sci Hung)	Acta Technica (Academiae Scientiarum Hungarica
Adhes Age	Adhesive Age
Advance Mater Tech	Advanced Materials Technology
Advance Chem Ser	Advances in Chemistry Series American Chemical Society
Advance Phys	Advances in Physics
AE (Arma Eng)	AE-Arma Engineering
AEI Eng	AEI Engineering
Aeronaut Quart	Aeronautical Quarterly
Aerospace Eng	Aerospace Engineering
AGARD Rep	AGARD Reports
AIAA J	AIAA Journal
AIChE J	AIChE Journal (American Institute of Chemical Engineers)
AIME Met Soc Trans	AIME Metallurgical Society Transactions
AIME Soc Mining Eng Trans	AIME Society of Mining Engineers, Transactions
Airco Sales Develop Pap	Airco Sales Development Information, Papers
Aircraft Eng	Aircraft Engineering
Air Eng	Air Engineering
Air Force Space Dig	Air Force and Space Digest
AJOUR - Tek Inform	AJOUR-Teknisk Informasjon
Allg Prakt Chem	Allgemeine und Praktische Chemie
Allg Warmtech	Allgemeine Warmetechnik
Allis-Chalmers Elec Rev	Allis-Chalmers Electrical Review
Alloy Dig	Alloy Digest
Alloy Metals Rev	Alloy Metals Review
Aluminium Abstr	Aluminium Abstracts
Aluminium Cour	Aluminium Courier
Aluminum Bull	Aluminum Bulletin
Aluminum Co Amer Tech Pap	Aluminum Co. of America Technical Papers
Aluminum World	Aluminum World
Amer Ceram Soc Bull	American Ceramic Society Bulletin
Amer Ceram Soc J	American Ceramic Society - Journal
Amer Electroplaters Soc Tech	American Electroplaters' Society Technical Proceedings
Amer Foundrymens Soc Trans	American Foundrymen's Society Transactions
Amer Gas J	American Gas Journal
AISI Pap	American Iron and Steel Institute Papers
Amer J Phys	American Journal of Physics
Amer Mach/Metalworking Manuf	American Machinist Metalworking Manufacturing
Amer Nucl Soc Trans	American Nuclear Society, Transactions
Amer Petrol Inst Proc	American Petroleum Institute Proceedings
Amer Phys Soc Bull	American Physical Society, Bulletin
Amer Scientist	American Scientist
Amer Soc Lubrication Eng	American Society of Lubrication Engineers, Preprints
An Mec Elec	Anales de Mecanica y Electricidad
Ande Elect	Ande Electrique
Angew Chem	Angewandte Chemie
Angew Mess-Regeltech	Angewandte Mess-Regeltechnik
Ann Phys (Ger)	Annalen der Physik
Ann Chim (France)	Annales de Chimie
Ann Phys (France)	Annales de Physique
Ann Chim (Italy)	Annali di Chimica
Ann Fals Expertise Chim	Annales des Falsifications et de l'Expertise Chimique
Ann Phys (US)	Annals of Physics
Appl Ind	Applications and Industry
Appl Magnet	Applied Magnetics
Appl Mech Rev	Applied Mechanics Review
Appl Optics	Applied Optics
Appl Phys Lett	Applied Physics Letters
Appl Sci Res	Applied Scientific Research
Appl Spectros	Applied Spectroscopy
Arch Automat Telemech	Archiwum Automatyki i Telemechaniki
Arch Eisenhuttenw	Archive fur das Eisenhuttenwesen
Arch Elektrotech	Archiwum Elektrotechniki
Arch Gornictwa	Archiwum Gornictwa
Arch Hutnictwa	Archiwum Hutnictwa
Arco Gas	Arco e Gas
Ariz Eng Sci	Arizona Engineer and Scientist
Ark Fysik	Arkiv for Fysik
Asarco Dig	Asarco Digest
ASEA J	ASEA Journal
ASLE Trans	ASLE Transactions
ASM Tech Rep	ASM Technical Reports
ASM Trans Quart	ASM Transactions Quarterly
Assoc Franc Tech Petrol	Association Francais des Techniques du Petrol
Assoc Quimica Argent Ann	Association Quimica Argentina, Annales
Assembly Eng	Assembly Engineering
Assoc Bronze Brass Founder Bull	Assoc. of Bronze and Brass Founder, Bulletin
ASTM Proc	ASTM Proceedings
ASTME Tech Pap	ASTME Technical Papers
Astronaut Acta	Astronautica Acta
Astronaut Aerospace Eng	Astronautics and Aerospace Engineering
Astronaut Aeron	Astronautics and Aeronautics
ATB Met	ATB Metallurgie
At Energe Soc Jap J	Atomic Energy Society of Japan, Journal
Australasian Corrosion Eng	Australasian Corrosion Engineer
Australasian Eng	Australasion Engineer
Australasian Inst Mining Met Proc	Australasian Institute of Mining and Metallurgy Proceedings
Australasian Manuf	Australasian Manufacturer
Australian Chem Process	Australian Chemical Processing
Australian Inst Metals J	Australian Institute of Metals Journal
Australian J Appl Sci	Australian Journal of Applied Science
Australian J Chem	Australian Journal of Chemistry
Australian J Phys	Australian Journal of Physics
Australian J Sci	Australian Journal of Science
Australian Mach Prod Eng	Australian Machinery and Production Engineering
Australian Plast Rubber J	Australian Plastics and Rubber Journal
Austrian Mach Steel Construct Rev	Austrian Machinery and Steel Construction Review
Automat Const	Automatic Control
Automat Mach	Automatic Machining
Automat Weld	Automatic Welding
Automation Prog	Automation Progress
Auto Eng	Automobile Engineer
Auto Body Eng	Automotive Body Engineering
Auto Ind	Automotive Industries
Aviat Week	Aviation Week
Avtomat Svarka	Avtomaticheskaya Svarka
	B
Ball Bearing J	Ball Bearing Journal
Banares Hindu Univ J Sci Res	Banares Hindu University, Journal of Scientific Research

Battelle Tech Rev	Battelle Technical Review
Baumasch Tech	Baumaschine und Technik
Bauplanung Bautech	Bauplanung Bautechnik
BCIRA J	BCIRA Journal
Bearing Eng	Bearing Engineer
Bell Lab Rec	Bell Laboratories Record
Bell Syst Tech J	Bell System Technical Journal
Berg Huttenmann Montsh MontanHochschule Leoben	Berg und Huttenmannische Monatshefte der Montanislischen Hochschule in Leoben
Ber Deut Keram Gas	Berichte der Deutschen
Beton Stahlbetonbau	Beton und Stahlbetonbau
BHP Rev	BHP Review
BHP Tech Bull	BHP Technical Bulletin
Birmingham Met Soc J	Birmingham Metallurgical Society Journal
Blast Furnace Steel Plant	Blast Furnace and Steel Plant
Blech	Blech
Brass and Bronze Forg Dig	Brass and Bronze Forgings Digest
Brit Ceram Soc Trans	British Ceramic Society Transactions
Brit Chem Eng	British Chemical Engineering
Brit Commun Electron	British Communications and Electronics
Brit Corrosion J	British Corrosion Journal
Brit Foundryman	British Foundryman
Brit Inst Radio Eng J	British Institution of Radio Engineers, Journal
Brit Iron Steel Res Assoc Publ	British Iron and Steel Research Association Publications
Brit J Appl Phys	British Journal of Applied Physics
Brit J Appl Sci	British Journal of Applied Science
Brit J Non-Destructive Test	British Journal of Non-Destructive Testing
Brit Mach Tool Eng	British Machine Tool Engineering
Brit Nucl Energy Conf J	British Nuclear Energy Conference, Journal
Brit Steelmaker	British Steelmaker
Brit Weld J	British Welding Journal
Brown Boveri Mitt	Brown Boveri Mitteilungen
Brutcher Trans	Brutcher (Henry) Translations
Building Steel	Building with Steel
Bul Inst Politech Buccuresti	Buletinul Institutului Politechnic Bucuresti
Bul Inst Politech din Iasi	Buletinul Institutului din Iasi
Bull Microscop Appl	Bulletin de Microscopie Appliquee
Bur Ships J	Bureau of Ships, Journal

C

Cambridge Phil Soc Proc	Cambridge Philosophical Society Proceedings
Can Mach Prod	Canada's Machine Production
Can Ceram Soc J	Canadian Ceramic Society Journal
Can Chem Process	Canadian Chemical Processing
Can Dep Mines Tech Surv Mines Br Res Rep Tech Bull	Canadian Dept. of Mines and Technical Surveys, Mines Branch Research Reports & Technical Bulletin
Can J Chem Eng	Canadian Journal of Chemical Engineering
Can J Chem	Canadian Journal of Chemistry
Can J Phys	Canadian Journal of Physics
Can Mach Manuf News	Canadian Machinery & Manufacturing News
Can Mach Metalworking	Canadian Machinery and Metalworking
Can Met Quart	Canadian Metallurgical Quarterly
Can Metalworking	Canadian Metalworking
Can Mining Met Bull	Canadian Mining and Metallurgical Bulletin
Can Mining J	Canadian Mining Journal
Can Mining Manual	Canadian Mining Manual
Can Oper Res Soc Newsletter	Canadian Operational Research Society Newsletter
Can Weld Fabr	Canadian Welder & Fabricator
Cast Metals Res Quart	Cast Metals Research Quarterly
CEBELCOR Tech Rep	CEBELCOR Technical Reports
Cent Doc Cient Bol	Centro de Documentation Cientifica, Boletin
CEP	CEP (Chemical Engineering Progress)
Ceram Age	Ceramic Age
Ceram Ind	Ceramic Industry
Chaleur Ind	Chaleur et Industrie
Chartered Mech Eng	Chartered Mechanical Engineer
Chem Age	Chemical Age
Chem Anal	Chemist Analyst
Chem Eng News	Chemical & Engineering News
Chem Eng	Chemical Engineer
Chem Eng Mining Rev	Chemical Engineering and Mining Review
Chem Eng Progr Symp Ser	Chemical Engineering Progress Symposium Series
Chem Anal	Chemist Analyst
Chem Process	Chemical Processing
Chem Rev	Chemical Review
Chem Labor Betrieb	Chemie fur Labor and Betrieb
Chem Soc J (England)	Chemical Society Journal (England)
Chem Soc Proc (England)	Chemical Society Proceedings (England)
Chem Soc Jap Bull	Chemical Society of Japan, Bulletin
Chem Soc Jap J (Pure Chem	Chemical Society of Japan Journal--Pure Chemistry
Chem Week	Chemical Week
Chem Listy	Chemicke Listy
Chem Prumysl	Chemicky Prumysl
Chem-Ingenior-Tech	Chemie-Ingenior-Technik
Chem Zeitung/Chem App	Chemiker Zeitung/Chemische Apparatur
Chem Ind (Ger)	Chemische Industrie
Chem Rundsch	Chemische Rundschau
Chem Tech	Chemische Technik
Chem Ind (Engl)	Chemistry and Industry
Chem Can	Chemistry in Canada
Chim Ind	Chimica e l'Industria
Chim Ind (France)	Chimie et Industrie
Chim Chron	Chimika Chronika
Chin J Phys	Chinese Journal of Physics
Chrome Dur	Chrome Due
Cienc Tec Soldadura	Ciencia y Tecnica de la Soldadura
CIRP Ann	CIRP Annalen
Climax Molybdenum Abras Resist News	Climax Molybdenum Abrasion-Resistant News
Cobalt Inform Center Publ (Battelle)	Cobalt Information Center Battelle Memorial Inst. Publications
Coke Chem	Coke and Chemistry
Colo Eng	Colorado Engineer
Colo Sch Mines-Mineral Ind Bull	Colorado School of Mines, Mineral Industries Bulletin
Colo Sch Mines Quart	Colorado School of Mines-Quart.
Columbia Eng Quart	Columbia Engineering Quarterly
Commonw Australia Sci Ind Res Rep	Commonwealth of Australia Scientific and Industrial Research Reports
Compt Rend Acad Sci	Comptes Rendus de l'Academie des Sciences
Compt Rend Acad Bulgare Sci	Comptes Rendue de l'Academie Bulgare des Sciences
Constr Masini	Construction de Masini
Constr Spec	Construction Specifier
Consum Ind Packag	Consumer and Industrial Packaging
Contemp Phys	Contemporary Physics
Control Eng	Control Engineering
Copper Brass Bull	Copper and Brass Bulletin
Corrosion Eng	Corrosion Engineering
Corrosion Anti-Corrosion	Corrosion et Anticorrosion
Corrosion Prevent Contr	Corrosion Prevention & Control
Corrosion Sci	Corrosion Science
Corrosion Technol	Corrosion Technology
CPE At World	CPE (Chemical & Process Engineering) and Atomic World
Crucible Titanium Rev	Curcible Titanium Review
Cryog Inform Rep	Cryogenic Information Report
Curr Eng Pract	Current Engineering Practice
Curr Sci	Current Science
Cut Tool Eng	Cutting Tool Engineering
Czech Foreign Trade	Czechoslovak Foreign Trade
Czech Glass Rev	Czechoslovak Glass Review
Czech Heavy Ind	Czechoslovak Heavy Industry
Czech J Phys	Czechoslovak Journal of Physics
Czech Mot Rev	Czechoslovak Motor Review

D

Dechema Monogr	Dechema Monographien
DMIC Memo	Defense Metals Information Cen-

	ter, Battelle Memorial Institute-Reports & Memos
Design Eng	Design Engineering
Deut Eisenbahn Tech	Deutsche Eisenbahn Technik
Deut Farben Z	Deutsche Farben Zeitschrift
DEW Tech Ber	DEW Technische Berichte
Die Cast Met Mould	Die Casting and Metal Moulding
Die Cast Eng	Die Casting Engineer
DMIC Rev	DMIV Review
Dokl Akad Nauk SSSR Fiz Khim	Doklady Akademii Nauk SSSR Fizicheskaya Khimia
Dokl Akad Nauk SSSR Fiz	Doklady Akademii Nauk SSSR--Fizika
Dokl Akad Nauk SSSR Tekh Fiz	Doklady Akademii Nauk SSSR--Tekhnicheskaya Fizika
Dokl Akad Nauk SSSR Khim	Doklady Akademii Nauk SSSR--Khimia
Dopovidi Akad Nauk Ukr RSR	Dopovidi Akademii Nauk Ukrainskoi RSR
Dopovidi Akad Nauk Ukr RSR Mekh	Dopovidi Akademii Nauk Ukrainskoi RSR--Mekhanika
Dopovidi Akak Nauk Ukr RSR Met	Dopovidi Akademii Nauk Ukrainskoi RSR--Metalurgia
Dow Metal Prod News	Dow Metal Products News
Drop Forg Top	Drop Forging Topics
	E
Egypt Acad Sci Proc	Egyptian Academy of Science, Proceedings
Eisenbahner	Der Eisenbahner
Elec Eng	Electrical Engineering
Elec Commun Lab Jap Rev	Electrical Communication Laboratory of Japan, Review
Elec Design News	Electrical Design News
Elec J	Electrical Journal
Elec Rev	Electrical Review
Elec Times	Electrical Times
Electroanal Chem	Electroanalytical Chemistry
Electrochem Soc J	Electrochemical Society, Journal
Electrochem Soc India Sect Bull	Electrochemical Society, India Section, Bull
Electrochem Soc Jap J	Electrochemical Society of Japan, Journal
Electrochem Technol	Electrochemical Technology
Electrochim Acta	Electrochimica Acta
Electromech Design	Electromechanical Design
Electron Design	Electronic Design
Electron/Electromech Prod	Electronic/Electromechanical Production
Electron Eng	Electronic Engineering
Electron Ind	Electronic Industries
Electron News	Electronic News
Electron Tech	Electronics Technician
Electron Technol	Electronic Technology
Electroplating Metal Finishing	Electroplating and Metal Finishing
Electrotech Lab Jap Pub	Electrotechnical Laboratory of Japan, Publications
Electro-Technol	Electro-Technology
Elektro Anz	Elektro Anzeiger
Elektron Rundsch	Elektronische Rundschau
Elektrotech Maschinenb	Elektrotechnik und Maschinenbau
Elektrotech Obz	Elektrotechniky Obzor
Energie Ind	Energia Industrial
Energia Nucl	Energia Nucleare
Engelhard Ind Tech Bull	Engelhard Industries Technical Bulletin
Eng Mineracao Met	Engenharia, Mineracao e Metallurgia
Engineer (Western Elec)	Engineer (Western Electric)
Eng Foundryman	Engineer & Foundryman
Eng Mining J	Engineering and Mining Journal
Eng Inst Can Trans	Engineering Institute of Canada Transactions
Eng J	Engineering Journal
Eng Mater Design	Engineering Materials and Design
Eng Dig	Engineers' Digest
Engl Elec J	English Electric Journal
Equip Mecanique	l'Equipment Mecanique
Erdol Kohl	Erdol und Kohl
ETZ-Elektrotech Z	ETZ-Elektrotechnische Zeitschrift
Europe Mach Rev	European Machinery Review
Exp Mech	Experimental Mechanics
	F
Factory Plant	Factory and Plant
Fac Cienc Quimicas Univ Nac Plata	Facultad de Ciencias Quimicas, Universidad Nacional de Plata
Fansteel Met	Fansteel Metallurgy
Fansteel Met Corp Tech Data	Fansteel Metallurgical Corp Technical Data Bulletins
Faraday Soc Discuss, Trans	Faraday Society, Discussions Transactions
Farbe Lack	Farbe und Lack
Feingerate Tech	Feingerate Technik
Feinwek Tech	Feinwek Technik
Fertigungstech Betrieb	Fertigungstechnik und Betrieb
Fiat Tech Bull	Fiat Technical Bulletin
Fiz Metallov Metalloved	Fizika Metallov i Metallovedenie
Fonderia Ital	Fonderia Italiana
Fondeur Aujourd Hui	Fondeur d'Aujourd Hui
Forsch Fortschu	Forschungen und Fortschritte
Forschungsber Landes Nordheim-Westfahlen	Forschungsberichte des Landes Nordheim-Westfahlen
Foseco Develop	Foseco Developments
Foundry Trade J	Foundry Trade Journal
Franklin Inst J	Franklin Institute, Journal
Franklin Inst Quart	Franklin Institute, Quarterly
Freiberger Forsch	Freiberger Forschungshefte
Fuji Iron Steel Tech Rep	Fuji Iron & Steel Technical Reports
	G
GEC J Sci Technol	G.E.C. Journal of Science and Technology
GE Res Lab Bull	General Electric Research Laboratory Bulletin
GM Eng J	General Motors Engineering Journal
Genie Chim	Genie Chimique
Glas-Email-Keram-Tech	Glas-Email-Keramo-Technik
Glass Technol	Glass Technology
Glastech Berichte	Glastechnische Berichte
Gov Mech Lab Pub	Government Mechanical Laboratory (Japan) Publications
Gray Ductile Iron News	Gray Ductile Iron News
Grind Finishing	Grinding and Finishing
GT & E Res Develop J	GT & E Research & Development Journal
	H
Hal Tech Soc Dig	Hal Technical Society Digest
Harterei Tech Mitt	Harterei-Technische Mitteilungen
Heat Piping Air Cond	Heating, Piping and Air Conditioning
Helv Chim Acta	Helvetica Chimica Acta
Helv Phys Acta	Helvetica Physica Acta
High Temp	High Temperature
Hilger J	Hilger Journal
Hitachi Rev	Hitachi Review
Hokkaido Univ Res Inst Catalysis J	Hokkaido University Research Institute for Catalysis Journal
Holz als Roh Werkstoff	Holz als Roh-und Werkstoff
Huntington Alloy Prod Div Tech Bull	Huntington Alloy Products Division International Nickel Co. Technical Bulletins
Hydraul Pneumatic Power Contr	Hydraulic Pneumatic Power and Controls
Hydrocarbon Process Petrol Refiner	Hydrocarbon Processing and Petroleum Refiner
	I
IBM J Res Develop	IBM Journal of Research and Development
I&EC J	I&EC Journal (Industrial and Engineering Chemistry)
I&EC Fundamentals	I&EC Fundamentals
I&EC Process Design Develop	I&EC Process Design and Development

I&EC Prod Res Develop	I&EC Product Research and Development
IEEE Trans Electron Devices	IEEE Transactions on Electron Devices
IEEE Spectrum	IEEE Spectrum
IEE Trans Nucl Sci	IEE Transactions on Nuclear Science
IMONO	IMONO (Japan Foundrymen's Society Journal)
Inco Corrosion Rep	Inco Corrosion Reporter
Inco Nickel Top	Inco Nickel Topics
Indian Acad Sci Proc	Indian Academy of Sciences Proceedings
Indian East Eng	Indian and Eastern Engineer
Indian Ceram Soc Trans	Indian Ceramic Society, Transactions
Indian Ceram	Indian Ceramics
Indian Chem Eng	Indian Chemical Engineer
Indian Chem Soc J	Indian Chemical Society, Journal
Indian Inst Metals Trans	Indian Institute of Metals Transactions
Indian J Appl Chem	Indian Journal of Applied Chemistry
Indian J Chem	Indian Journal of Chemistry
Indian J Pure Appl Phys	Indian Journal of Pure and Applied Physics
Indian J Technol	Indian Journal of Technology
Indian Mach Tools J	Indian Machine Tools Journal
Ind Mineraria	Industria Mineraria
Ind Quimica	Industria y Quimica
Ind Appl Nucl Energy	Industrial Applications of Nuclear Energy
Ind Booster	Industrial Booster
Ind Diamond Rev	Industrial Diamond Review
Ind Electron	Industrial Electronics
Ind Finishing (US)	Industrial Finishing
Ind Finishing (London)	Industrial Finishing (London)
Ind Gas	Industrial Gas
Ind Heating	Industrial Heating
Ind Lab	Industrial Laboratory
Ind Res	Industrial Research
Ind Aliment	Industrie Alimentari
Ind Anz	Industrie-Anzeiger
Ind Ceram (France)	Industrie Ceramque
Ind Chem Phosphate	Industrie Ceramque
Ind Chem Phosphate	Industrie Chemique-la Phosphate
Ind Chim Belge	Industrie Chimique Belge
Ind Franc Achats Entretien	Industrie Francaise-Achats et Entretien
Ind Petrole	l'Industrie duPetrole
Ind Organ	Industrielle Organisation
Ing Mecc	Ingeneria Meccanica
Ing Ind	Ingenieria e Industria
Ing Quimica	Ingeniero Quimica
Ing Auto	Ingenieurs de l'Automobile
Inorg Chem	Inorganic Chemistry
Inst Marine Eng Trans	Institute of Marine Engineers, Transactions
Inst Metal Finishing Bull	Institute of Metal Finishing Bulletin
Inst Metal Finishing Trans	Institute of Metal Finishing Transactions
Inst Metals J	Institute of Metals, Journal
Inst Phys Chem Res	Institute of Physical and Chemical Research
Inst Vitreous Enamellers Bull	Institute of Vitreous Enamellers Bulletin
Inst Chem Eng Trans	Institute of Chemical Engineers, Transactions
Inst Eng J (India)	Institute of Engineers (India) Journal
Inst Eng Elec Mech Eng Trans	Institution of Engineers (Australia) Electrical & Mechanical Transactions
Inst Eng Elec Mech Eng J	Institution of Engineers (Australia) Electrical & Mechanical Journal
Inst Mech Eng Proc	Institution of Mechanical Engineers Proceedings
Inst Mining Met Bull	Institution of Mining and Metallurgy Bulletin (Incorporating Transactions)
Inst Prod Eng J	Institution of Production Engineers Journal
Inst Hierro Acero	Instituto del Hierro y del Acero
Inst Pesquisas Technol	Instituto de Pesquisas Technologicas
Inst Politehnic Timisoara Bul Stiint	Institutului Politehnic Timisoara, Buletinul Stiintificsitehic
Instrum Contr Syst	Instrument and Control Systems
Instrum Eng	Instrument Engineer
Instrum Pract	Instrument Practice
Instrum Rev	Instrument Review
Instrum Lab	Instruments & Laboratories
Int Chem Eng	International Chemical Engineering
Int J Appl Radiat Isotop	International Journal of Applied Radiation and Isotopes
Int J Control	International Journal of Control
Int J Electron	International Journal of Electronics
Int J Fract Mech	International Journal of Fracture Mechanics
Int J Heat Mass Transfer	International Journal of Heat & Mass Transfer
Int J Mach Tool Design Res	International Journal of Machine Tool and Research
Int J Mech Sci	International Journal of Mechanical Sciences
Int J Solids Struct	International Journal of Solids and Structures
Int Plast Eng	International Plastics Engineering
Int Sci Technol	International Science and Technology
Int Shipbuild Progr	International Shipbuilding Progress
Iron Age Metalworking Int	Iron Age Metalworking International
Iron Steel	Iron and Steel
Iron Steel Eng	Iron and Steel Engineer
Iron Steel Inst J	Iron and Steel Institute, Journal
Iron Steel Inst Jap Trans	Iron and Steel Institute of Japan Transactions
Iron Steel Inst Spec Rep	Iron and Steel Institute, Special Reports
IRSID Publ	IRSID Publications
ISA J	ISA Journal
ISA Trans	ISA Transactions
Israel J Chem	Israel Journal of Chemistry
Israel J Technol	Israel Journal of Technology
Istanbul Tek Univ Bull	Istanbul Teknik Universitiesi Bulletin
Inst Sperim Metalli Leggeri Rapp	Instituto Sperimentali dei Metalli Leggeri Rapporto Annuale
Izv Akad Nauk SSSR Met Gornoe Delo	Izvestiya Akademii Naul SSR-Metallurgiya i Gornoe Delo (2)
Izv VUZ Chernaya Met	Izvestiya VUZ-Chernaya Metallurgiya
Izv VUZ Mashinostr	Izvestiya VUZ Mashinostroenie
Izv VUZ Tsvetnaya Met	Izvestiya VUZ-Tsvetnaya Metallurgiya

J

Jaderna Energie	Jaderna Energie
Jap Acad Proc	Japan Academy, Proceedings
Jap Chem Soc Bull	Japan Chemical Society Bulletin
Jap Corrosion Eng	Japanese Corrosion Engineering
Jap Inst Metals J	Japan Institute of Metals Journal
Jap Inst Metals Trans	Japan Institute of Metals Transactions
Jap Steel Works Tech News	Japan Steel Works Technical News
Jap J Appl Phys	Japanese Journal of Applied Physics
Jena Rev	Jena Review
Jernkonstorets Ann	Jernkontorets Annaler
J Chim Phys	Journal de Chimie Physique
J Phys Radium	Journal de Physique et la Radium
J Rech Centre Nat	Journal des Recherches du Centre Nationale
J Four Elec	Journal due Four Electrique
J Prakt Chem	Journal fur Praktische Chemie
J Appl Chem	Journal of Applied Chemistry
J Appl Mech ASME	Journal of Applied Mechanics (ASME) Trans., Series E
J Appl Phys	Journal of Applied Physics
J Appl Polymer Sci	Journal of Applied Polymer Science
J Basic Eng	Journal of Basic Engineering

	(ASME) Trans., Series D
J Chem Eng Data	Journal of Chemical and Engineering Data
J Chem Phys	Journal of Chemical Physics
J Chem UAR	Journal of Chemistry UAR
J Electron Contr	Journal of Electronics and Control
J Electronmicroscop	Journal of Electronmicroscopy
J Eng Ind	Journal of Engineering for Industry (ASME) Trans., Series B
J Environ Sci	Journal of Environmental Sciences
J Inorg Nucl Chem	Journal of Inorganic and Nuclear Chemistry
J Less-Common Metals	Journal of the Less-Common Metals
J Mater	Journal of Materials
J Mech Eng Sci	Journal of Mechanical Engineering Science
J Met Club	Journal of the Metallurgical Club
J Metals	Journal of Metals
J Microscop	Journal de Microscopie
J Nucl Mater	Journal of Nuclear Materials
J Nucl Sci Technol	Journal of Nuclear Science and Technology
J Paint Technol	Journal of Paint Technology
J Petrol Technol	Journal of Petroleum Technology
J Phys Chem	Journal of Physical Chemistry
J Phys Chem Solids	Journal of Physics and Chemistry of Solids
J Sci Ind Res	Journal of Scientific & Industrial Research
J Sci Instrum	Journal of Scientific Instruments
J Spacecraft Rockets	Journal of Spacecraft and Rockets
J Technol	Journal of Technology
JSME Bull	JSME (Japan Society of Mechanical Engineers) Bulletin
Junior Inst Eng J	Junior Institution of Engineers Journal
	K
Kaiser Aluminum News	Kaiser Aluminum News
Kansai Univ Tech Rep	Kansai University Technical Reports
Kem Ind (Yugosl)	Kemija u Industriji
Kerntech	Kerntechnik
Kolloid Z	Kolloid Zeitschrift
Kovove Mater	Kovove Materialy
Khim Mashinostr	Khimicheskoe Mashinostroenie
Kohasz Lapok	Kohaszati Lapok
Konst Ternaran Met Syst	Konstitution der Ternaran Metallischen Systeme
Korose Ochrana Mater	Korose a Ochrana Materialu
Kumanoto Univ Fac Eng Mem	Kumamoto University Faculty of Engineering Memoirs
Kuznechno-Shtampovochnoe	Kuznechno-Shtampovochnoe Proizvodstvo
Kyoto Univ Inst Chem Res Publ	Kyoto University Institute for Chemical Research Publications
Kyoto Univ Coll Sci Mem	Kyoto University College of Science, Memoirs
Kyoto Univ Eng Res Inst Tech Rep	Kyoto University Engineering Research Institute Technical Reports
Kyoto Univ Fac Eng Mem	Kyoto University Faculty of Engineering, Memoirs
Kyushu Univ Fac Eng Mem	Kyushu University Faculty of Engineering Memoirs
	L
Lab Pract	Laboratory Practice
Light Met Intell	Light Metals Intelligence
Liteinoe Proizv	Liteinoe Proizvodstvo
Lockheed Georgia Quart	Lockheed Georgia Quarterly
Lockheed Missiles Space Publ	Lockheed Missiles and Space Co. Publications
Lubrication Eng	Lubrication Engineering
	M
Mach Tool Blue Book	Machine and Tool Blue Book
Mach Design	Machine Design
Mach Mod	Machine Moderne
Mach Shop Mag	Machine Shop Magazine
Mach Lloyd	Machinery Lloyd
Mach Market	Machinery Market
Mag Stand	Magazine of Standards
Magnesium Prod	Magnesium Products
Magyar Kem Folyoirat	Magyar Kemiai Folyoirat
Magy Kem Lapja	Magyar Kemikusok Lapja
Makromol Chem	Makromolekular Chemie
Maschinenbautechnik	Maschinenbautechnik
Mass Prod	Mass Production
Mater Evaluation	Materials Evaluation
Mater Handl Eng	Materials Handling Engineering
Mater Design Eng	Materials in Design Engineering
Mater Protect	Materials Protection
Mater Res Stand	Materials Research and Standards
Mater Sci Eng	Materials Science and Engineering
Mec Elec	Mecanique Electricite
Mech Eng	Mechanical Engineering
Mech World Eng Rec	Mechanical World and Engineering Record
Mech Phys Solids	Mechanics and Physics of Solids
MemSci Rev Met	Memoires Scientifiques de la Revue de Metallurgie
Metal Fabr	Metal Fabricator
Metal Finishing J	Metal Finishing Journal
Metal Finishing Soc Jap J	Metal Finishing Society of Japan, Journal
Metal Mining Process	Metal Mining and Processing
Metal Powder Rep	Metal Powder Report
MPM-Metal Prod Manuf	MPM-Metal Products Manufacturing
Metal Progr	Metal Progress
Metal Sci Heat Treat Metals	Metal Science and Heat Treatment of Metals
Metalloved Term Obrabotka Metall	Metallovedenie i Termicheskaya Obrabotka Metallov
Metall-Reingung Vorbehandl	Metall-Reingung und Vorbehandlung
Met Ital	Metallurgia Italiana
Met Rev	Metallurgical Reviews
Met Constr Mec	Metallurgie et la Construction Mecanique
Metals Eng Quart	Metals Engineering Quarterly
Met Elec (Spain)	Metalurgia y Electricidad
Metalworking Prod	Metalworking Production
Metaux-Corrosion-Ind	Metaux-Corrosion-Industries
Microchem J	Microchemical Journal
Mikrochim Acta	Mikrochimica Acta
Mill Factory	Mill and Factory
Miner Met	Mineria y Metalurgie
Mineral Ind (Penn State Univ)	Mineral Industries (College of Mineral Industries, Penn State University)
Mineral Ind J	Mineral Industries Journal (Virginia Polytechnic Institute)
Mineral Res Explor Inst Bull	Mineral Research and Exploration Institute, Turkey, Bulletin
Mineral Process	Minerals Processing
Mineria Met	Mineria y Metalurgie
Mines Met	Mines et Metallurgie
Mines Mag	Mines Magazine
Mining Chem Eng Rev	Mining and Chemical Engineering Review
Mining Met Soc Amer Bull	Mining and Metallurgical Society of America Bulletin
Mining Met Quart	Mining and Metallurgy Quarterly
Mining Congr J	Mining Congress Journal
Mining Elec Mech Eng	Mining Electrical & Mechanical Engineer
Mining Eng	Mining Engineering
Mining J	Mining Journal
Mining Mag	Mining Magazine
Mining Minerals Eng	Mining and Minerals Engineering
Ministere Air Publ Sci Tech	Ministere de l'Air, Publications Scientifiques et Techniques
Missiles Space	Missiles and Space

Missouri Sch Mines Met	Missouri School of Mines and Metallurgy, Bulletin
Mod Cast	Modern Castings
Mod Mach Shop	Modern Machine Shop
Mod Metals	Modern Metals
Mod Plast	Modern Plastics
Monatsber Deut Akad Wiss	Monatsberichte der Deutschen Akademie der Wissenschaften
Monatsh Chem	Monatshefte fur Chemie

N

Nagoya Univ Fac Eng Mem	Nagoya University, Faculty of Engineering, Memoirs
Nat Lucht-Ruimtevaartlab Rep	National Lucht-en Ruimtevaartlaboratorium Reports (National Aero and Astronautical Research Inst.)
Nat Res Counc (Can)	National Research Council (Canada)
New Zeal Eng	New Zealand Engineering
New Zeal J Sci	New Zealand Journal of Science
News Eng (OSU)	News in Engineering (Ohio State University)
Nippon Kokan Tech Rep J	Nippon Kokan Technical Report Journal
NML Tech J	NML Technical Journal (National Metallurgical Laboratory)
Norelco Rep	Norelco Reporter
NE Coast Inst Eng Shipbuild Trans	North East Coast Institute of Engineers and Shipbuilders, Transactions
NRIM Trans	NRIM (National Research Institute for Metals) Transactions
Nucl Appl	Nuclear Applications
Nucl Eng Nucl Power	Nuclear Engineering-Incorporating Nuclear Power
Nucl Energy	Nuclear Energy
Nucl Sci Eng	Nuclear Science and Engineering
Nucl Struct Eng	Nuclear Structural Engineering

O

Obrobka Plast	Obrobka Plastyczna
Oelikon Schweissmitt	Oerlikon Schweissmitteilungen
Oil Colour Chem Assoc J	Oil and Colour Chemist's Association Journal
Oil Gas J	Oil and Gas Journal
Opt Soc Amer J	Optical Society of America Journal
Opt Spectroscop	Optics and Spectroscopy
Osaka City Univ Fac Eng Mem	Osaka City University Faculty of Engineering, Memoirs
Osaka Univ Inst Sci Ind Res Mem	Osaka University Institute of Scientific and Industrial Research Memoirs
Osaka Univ Prefect Bull	Osaka University Prefecture Bulletin
Osaka Univ Tech Rep	Osaka University Technology Reports
Osterreich Chem Zeitung	Osterreichische Chemiker-Zeitung
Osterreich Ing Z	Osterreichische Ingenieur Zeitschrift

P

Paint Technol	Paint Technology
Pakistan J Sci	Pakistan Journal of Science
Pakistan J Sci Ind Res	Pakistan Journal of Scientific and Industrial Research
Period Polytech	Periodica Polytechnica
Petro/Chem Eng	Petro/Chem Engineer
Philippine Iron Steel J	Philippine Iron and Steel Journal
Philips Res Rep	Philips Research Reports
Philips Tech Rev	Philips Technical Review
Phil Mag	Philosophical Magazine
Phys Status Solidi	Physica Status Solidi
Phys Rev	Physical Review
Phys Rev Lett	Physical Review Letters
Phys Soc Bull	Physical Society, Bulletin
Phys Soc Proc	Physical Society, Proceedings
Phys Soc Jap J	Physical Society of Japan, Journal
Phys Lett	Physics Letters
Phys Metals Metallogr	Physics of Metals and Metallography
Phys Today	Physics Today
Phys Abhandl Sowfetunion	Physikalische Abhandlungen aud der Sowjetunion
Pipe Line Ind	Pipe Line Industry
Pipe Line News	Pipe Line News
Pipes Pipelines	Pipes and Pipelines
Pitture Vernici	Pitture e Vernici
Planseeber Pulvermet	Planseeberichte fur Pulvermetallurgie
Plaste Kautschuk	Plaste und Kautschuk
Plast Inst J	Plastics Institute, Journal
Plast Inst Trans	Plastics Institute, Trans.
Plat Mag	Plating Magazine
Plat Manag	Plating Management
Platinum Metals Rev	Platinum Metals Review
Pol Acad Sci Inst Nucl Res Rep	Polish Academy of Sciences-Institute of Nuclear Research, Reports
Pol Acad Sci Rev	Polish Academy of Sciences, Review
Polytech Tijdschur	Polytechnisch Tijdschrift
Poroskovaya Met	Poroskovaya Metallurgiya
Powder Met Quart	Powder Metallurgy Quarterly
Powder Met Metal Ceram	Powder Metallurgy and Metal Ceramics
Prace Inst Hutniczych	Prace Instytutow Hutniczych
Prat Ind Moc	Pratique des Industries Mecaniques
Prakt Chem	Praktische Chemie
Prakt Metallogr	Praktische Metallographie
Precision Metal Mold	Precision Metal Molding
Prod Eng	Product Engineering
Prod Finishing	Product Finishing
Prod Engineer	Production Engineer
Prod Equip	Production Equipment
Progr Mater Sci	Progress in Materials Science
Prog Theor Phys	Progress in Theoretical Physics
Przegl Odlewnictwa	Przeglad Odlewnictwa
Przegl Spawalnictwa	Praeglad Spawalnictwa
Pure App Chem	Pure and Applied Chemistry
Pure Appl Mech (Comp Rend)	Pure and Applied Mechanics
Pure Appl Phys (Comp Rend)	Pure and Applied Physics

R

Radex Rundsch	Radex Rundschau
Rass Chim	Rassegna Chimica
RCA Tech Notes	RCA Technical Notes
Reactor Sci Technol	Reactor Science and Technology
Reactor Technol	Reactor Technology
Real Soc Espan Fis Quim	Real Socieded Espanola de Fisica y Quimica, Anales
Rec Travaux Chim Pays Bas	Recueil des Travaux Chimique des Pays Bas
Rech Aeronaut	Recherche Aeronautique
Ref J	Refractories Journal
Rensselaer Eng	Rensselaer Engineer
Res Ind	Research and Industry
Res Trends	Research Trends
Rev Sci Instrum	Review of Scientific Instruments
Rev Mod Phys	Reviews of Modern Physics
Rev Chim	Revista de Chimie
Rev Cienc Apl	Revista de Ciencia Aplicada
Rev Fac Cienc Quim	Revista de la Facultad de Ciencias Quimicas
Rev Latinoamer Siderugia	Revista Latinoamericana de Siderurgia
Revista Met	Revista de Metalurgia
Rev Mexicana Fis	Revista Mexicana de Fisica
Rev Aluminium	Revue de l'Aluminium
Rev Chim Minerale	Revue de Chimie Minerale
Rev Hautes Temp Refract	Revue des Hautes Temperatures et des Refractaires
Rev Mat	Revue des Materiaux

Rev Ind Mineral	Revue de l'Industrie Minerale
Rev Quest Sci	Revue des Questions Scientifiques
Rev Rom Chim	Revue Roumaine Chimie
Rev Soudure-Lastidjdsch	Revue de la Soudre-Lastijd-schrift
Rev Mec	Revue de Mecanique
Rev Mec Appl	Revue de Mecanique Appliquee
Rev Met	Revue de Metallurgie
Rev Phys (Rum)	Revue de Physique
Rev Nickel	Revue du Nickel
Rev Franc Corps Gras	Revue Francaise de Corps Gras
Rev Gen Mec Elec	Revue Generale de Mecanique Electricite
Rev Gen Therm	Revue Generale de Thermique
Rev Prat Froid	Revue Pratique du Froid
Rev Rum Met	Revue Roumaine de Metallurgie
Rev Tech Luxemb	Revue Technique Luxemborgeoise
Rev Universelle Mines Met Mec	Revue Universelle des Mines, de la Metallurgie, de la Mecanique
Reynolds Rev	Reynolds Review
Ric Sci	Ricerca Scientifica
Riv Ing Nucl	Revista di Ingegneria Nucleare
Riv Mecc	Rivista di Meccanica
Riv Ital Saldatura	Rivista Italiana della Saldatura
Roy Aeronaut Soc J	Royal Aeronautical Soc. Journal
Roy Inst Technol Trans (Swed)	Royal Institute of Technology Transactions
Roy Soc Proc	Royal Society, Proceedings
Roy Soc London Phil Trans	Royal Society of London, Philosophical Transactions
Rozper Inzynierskie	Rozprawy Inzynierskie
Rudarsko Met Zv	Rudarsko-Metalurski Zbornik
Rudodobiv Met	Rudodobiv e Metallurgia
Russ Cast Prod	Russian Castings Production
Russ Met Mining	Russian Metallurgy and Mining

S

SAE J	SAE Journal
SAE Pap	SAE Papers
SAE Trans	SAE Transactions
Saldatura Autogena	Saldatura Autogena
Sb Vedeckych Praci VSB	Sbornik Vedeckych Praci VSB
Schleif Poliertech	Schleif und Poliertechnik
Schweissen Schneiden	Schweissen und Schneiden
Schweiz Aluminum Rundsch	Schweizer Aluminum-Rundschau
Schweiz Arch Angew Wissensch Tech	Schweizer Archiv fur Angewandte Wissenschaft und Technik
Sci Cult	Science and Culture
Sci Eng	Scientia Sinica
Sci Amer	Scientific American
Sci Lubrication	Scientific Lubrication
Sci Tech Armement	Sciences et Techniques de l'Armement
Semicond Prod	Semiconductor Products
Sheet Metal Ind	Sheet Metal Industries
Siemens Rev	Siemens Review
Siemens Z	Siemens Zeitschrift
Silicates Ind	Silicates Industriels
Sklar Keram	Sklar a Keramik
SNTL Tech Dig	SNTL Technical Digest
Soc Chim Belge Bull	Societes Chimiques Belge, Bulletin
Soc Chim France Bull	Societe Chimique due France, Bulletin
Soc Franc Ceram	Societe Francaise de Ceramique
Soc Franc Mineral Cristallogr Bull	Societe Francaise de Mineralogie et de Cristallographie Bulletin France
Soc Roy Belge Ing Ind Rev	Societe Royale Belge des Ingenieurs et des Industriels, Revue
Soc Plast Eng J	Society of Plastic Engineers, Journal
Soc Plast Eng Trans	Society of Plastic Engineers, Transactions
Solid-State Commun	Solid-State Communications
Solid-State Electron	Solid-State Electronics
Soudage Tech Connexes	Soudage et Techniques Connexes
S Afr Eng	South African Engineer
S Afr Eng Assoc J	South African Engineers Association Journal
S Afr Ind Chem	South African Industrial Chemist
S Afr Inst Mining Met J	South African Institute of Mining and Metallurgy Journal
S Afr Mech Eng	South African Mechanical Engineer
S Afr Mining Eng J	South African Mining & Engineering Journal
S Wales Inst Eng Proc	South Wales Institute of Engineering, Proceedings
Southern Power Ind	Southern Power and Industry
Soviet J Nonferrous Metals	Soviet Journal of Nonferrous Metals
Soviet Phys Crystallogr	Soviet Physics-Crystallography
Soviet Phys JETP	Soviet Physics-JETP
Soviet Phys Solid State	Soviet Physics-Solid State
Soviet Phys Tech Phys	Soviet Physics-Technical Physics
Space/Aeronaut	Space/Aeronautics
Spec Steel	Special Steel
Spectrochim Acta	Spectrochimica Acta
Spech Keram-Glas-Email	Spechsaal fur Keramic-Glas-Email
SRI J	SRI Journal
Stahl Eisen	Stahl und Eisen
Stainless Steel Architect Data Sheet	Stainless Steel Architectural Data Sheets
Stainless Steel Architect Quar	Stainless Steel Architectural Quarterly
Stanford Res Inst-Res Ind	Stanford Research Institute-Research for Industry
Stauk Instrum	Stauki i Instrument
Steel Horiz	Steel Horizons
Steel Prod Manual	Steel Products Manual
Steel Rev	Steel Review
Struct Eng	Structural Engineer
Stud Cercet Chim	Studii si Cercetari de Chimie
Stud Cercet Mec Apl	Studii si Cercetari de Mecanica Aplicata
Stud Cercet Met	Studii si Cercetari de Metalurgie Rumania
STZ Schweiz Tech Z	STZ-Schweizerische Technische Zeitschrift
Sulzer Tech Rev	Sulzer Technical Review
Sumitomo Light Metals Tech Rep	Sumitomo Light Metals Technical Report
Sumitomo Met	Sumitomo Metals
Suomen Kem	Suomen Kemistilehti
Surface Sci	Surface Science
Svarochn Proizv	Svarochnoe Proizvodistvo
Svensk Kem Tidskr	Svensk Kemisk Tidskrift
Swiss Tech	Swiss Technics

T

Tech Eng News	Tech Engineering News
Tech Betrieb	Technik und Betrieb
Tech Mod	Technique Moderne
Tech Sci Aeronaut Spatiales	Technique et Science Aeronautiques et Spatiales
Tech Rev	Technion Review
Tech Ber	Technische Berichte
Tech Mitt	Technische Mitteilungen
Tech Mitt Krupp-Werksber-Forschungsber	Technische Mitteilungen Krupp-Werksberichte--Forschungsberichte
Tech Uberwachung	Technische Uberwachung
Tech Week	Technology Week
Tec Met	Technica Metalurgica
Tek Kemian Aikak	Teknillisen Kemian Aikakauslehti
Tek-Tisdkr	Teknisk-Tidskrift
Tek Ukeblad	Teknisk Ukeblad
33 Mag Met Prod	33 Magazine of Metals Producing
Tisddkr Kjemi Bergvesen Met	Tidskriften for Kjemi, Bergvesen og Metallurgi
Tidskr Verkstaderna	Tidskriften Verkstaderna
Tin Uses	Tin and Its Uses
Tohoku Univ Sci Rep Res Inst Ser A Phys Chem Met	Tohoku University, Science Reports of Research Institutes Series A, Physics, Chem-

	istry & Metallurgy
Tohoku Univ Tech Rep	Tohoku University, Technology Reports
Tokai Technol J	Tokai Technological Journal
Tokyo Metrop Univ Fac Tech	Tokyo Metropolitan University Faculty of Technology, Memoirs E
Tokyo Inst Technol Bull	Tokyo Institute of Technology
Tokyo Univ Eng Res Inst Fac Eng	Tokyo University Engineering Research Institute, Faculty of Engineering, Annual Report
Tokyo Univ Fac Eng J	Tokyo University, Faculty of Engineering Journal
Tokyo Univ Inst Ind Sci Rep	Tokyo University Institute of Industrial Science, Report
Tonind Zeitung Keramische Rund	Tonindustrie-Zeitung und Keramische Rundschau
Tool Manuf Eng	Tool and Manufacturing Engineer
Tooling Prod	Tooling and Production
Traitement Therm	Traitement Thermique
Traitements Surface	Traitements de Surface
Trattamenti Met	Trattamenti dei Metalli
Tsvetnye Met	Tsvetnye Metally
TZ Prak Metallbearbeitung	TZ fur Prakische Metallbearbeitung
	U
Union Carbide Metals Rev	Union Carbide Metals Review
U.S. Piper	U.S. Piper
U.S. Steel Quart	U.S. Steel Quarterly
Univ Ind Santander, Rev	Universidad Industrial de Santander, Revista
Usine Nouv	l'Usine Nouvelle
	V
Vakum Tech	Vakuum-Technik
Vancoram Rev	Vancoram Review
VDI Ber	VDI Berichte
VDI Z	VDI-Zeitschrift
Von Roll Mitt	Von Roll Mitteilungen
	W
Waseda Univ Cast Res Lab Rep	Waseda University Castings Reports
Wash State Inst Tech Bull	Washington State Institute of Technology, Bulletin
Wear-Usure-Verschleiss	Wear-Usure-Verschleiss
Weld Metal Fabr	Welding and Metal Fabrication
Weld Eng	Welding Engineer
Weld Fabr Design	Welding Fabrication and Design
Weld J	Welding Journal
Weld Prod	Welding Production
Weld Res	Welding Research
Weld Res Abroad	Welding Research Abroad
Weld Res Counc Bull	Welding Research Council Bulletin
Weld Res Counc Rep Progr	Welding Research Council Reports of Progress
Weld Res News	Welding Research News
Weld Soc J	Welding Society Journal
Werkstatt Betrieb	Werkstatt und Betrieb
Werkstatt Betrieb (Engl Transl)	Werkstatt und Betrieb (with English Translations)
W Scot Iron Steel Inst J	West of Scotland Iron and Steel Institute Journal
W Mach Steel World	Western Machinery and Steel World
W Metalworking	Western Metalworking
Westinghouse Eng	Westinghouse Engineer
Westinghouse Tech Pap	Westinghouse Technical Papers
Wild-Barfield Heat Treat J	Wild-Barfield Heat Treatment Journal
Wire, Wire Prod	Wire and Wire Products
Wire Ind	Wire Industry
Wire World Int	Wire World International
Wissenschtl Z Ger	Wissenschaftliche Zeitschrift Germany (der Martin-Luther-Universitat)
WSU Technometer	WSU Technometer
	Y
Yawata Rep	Yawata Reports
Yawata Tech Rep	Yawata Technical Reports
	Z
Zairyo	Zairyo (Journal of the Society of Materials Science
Zavodskaya Lab	Zavodskaya Laboratoriya
Z Angew Phys	Zeitschrift fur Angewandt Physik
Z Anorg Allg Chem	Zeitschrift fur Anorganache und Allgemeine Chemie
Z Chem	Zeitschrift fur Chemie
Z Elektrochem	Zeitschrift fur Elektrochemie
Z Erzbergbau Metallhuttenw	Zeitschrift fur Erzbergbau und Metallhuttenwesen
Z Instrum	Zeitschrift fur Instrumentenkunde
Z Kristallogr	Zeitschrift fur Kristallographie
Z Metallkunde	Zeitschrift fur Metallkunde
Z Naturforsch	Zeitschrift fur Naturforschung
Z Phys Chem (Leipsig)	Zeitschrift fur Physikalische Chemie (Leipsig)
Z Schweisstech-J Soudre	Zeitschrift fur Schweisstechnik
Zh Neorganicheskoe Chim	Zhurnal Neorganicheskoe Chimii
Zh Prikladno Mekh Tekhncheskoe Fiz	Zhurnal Prikladno Mekhanikii Tekhncheskoe Fiziki

INTRODUCTION TO THE INDEX

A few comments on the make-up and philosophy of the subject index will help in its optimum use. Two basic principles are important: First, that it utilizes a thesaurus for control of terminology and, second, that it is prepared by a specially developed computer program that is generally applicable to thesaurus indexing.

THESAURUS PRINCIPLES

ASM has developed a Thesaurus of Metallurgical Terms which parallels the EJC Thesaurus of Engineering Terms. The ASM Thesaurus can therefore be considered as a subset of the EJC Thesaurus, providing more extensive and detailed terminology for metallurgical subjects.

One of the basic principles of any thesaurus is the ability to show term relationships. In the ASM and EJC Thesauri these relationships are of four kinds: synonyms, broad terms (generic), narrow terms (specific), and related terms (relationships that are neither synonymous nor members of a family or hierarchy, but are closely related in concept). Using the term "arc welding" as an example, the following relationships can be conveyed:

Electric Arc Welding—a synonym which in conventional indexing practice would be entered as "Electric arc welding, see Arc welding".

Shielded arc welding—a narrower term to Arc welding.

Welding—a broader term to Arc welding.

Arc brazing—a related term.

Users of the RML index who have access to either the ASM or EJC Thesauri will find them most helpful in leading them to a broad display of index entries pertinent to their search requirements.

COMPUTER PRINCIPLES

One of the important features built into the computer indexing program is the capability of automatically generating "See" and "See also" references traditionally found in good subject indexes.

This capability extends to the synonymous terms, the narrower terms, and a few selected related terms. For example, if a reference is indexed under the term "Arc welding", the computer will automatically generate a printed notation in the proper alphabetical order: "Electric arc welding, see Arc welding" (synonym). It will also simultaneously generate a notation: "Welding, see also Arc welding" (narrower term). (A "See also" notation is printed if there are entries under the main term "Welding"; if there are no entries under "Welding", the notation will be "See Arc welding", as well as any other specific welding terms that are referenced in that issue of the index.)

Another important feature of the computer program, which is a refinement over most computer indexing systems, is the facility for two levels of index entry—a main term plus one subordinate term. This is most helpful when searching under such broad index entries as aluminum, stainless steels, and other generic concepts which are likely to be heavily populated in the index. The subterms as well as the main terms are governed by the thesaurus terminology.

GUIDELINES FOR OPTIMUM USE OF INDEX

In addition to a knowledge of the above two basic principles, some further acquaintance with the indexing procedures will be helpful to the user.

Abstract Numbering System: The abstract serial number as it appears in the index has four constituent parts, as shown in this example: 66-01-M10-43669. The meanings are as follows:

First is a two-digit number indicating the year of the RML volume—66 for 1966.

Second is a two-digit number indicating the month of the RML issue—01 for January, 02 for February, etc.

Third is an alphanumeric combination consisting of the letter M plus two digits. The letter M appears with all abstracts in RML to designate metallurgy and distinguish RML abstracts from those generated by Engineering Index which carry different letters for different disciplines. The two-digit combination indicates the subject section of RML. Thus 10 refers to section 10 on Heat Treating.

Fourth is the serial number uniquely identifying the abstract—43669.

In the body of RML, only the last two segments M10-43699, are shown in the serial number, since the year and month are implicit in the current issue.

Alphabetization: A word-by-word alphabetizing system is used. Thus, a typical sequence is: Heat balance—Heat treatment—Heating equipment. The comma separating main and subordinate terms, however, is regarded as a full stop. Thus, "Aluminum, heating" precedes "Aluminum compounds".

When more than one entry appears under an index heading, the titles are not listed alphabetically by the first word of the title, but rather numerically by the abstract serial number. The total number is taken into account in the numerical sequence. Thus, 66-01-M10-43669 will precede 66-02-M08-45316, and 66-02-M08-45316 will precede 66-02-M10-44892.

Order of Words: Direct rather than inverted terms are used to express compound meanings, thus, "Stainless steels", not "Steels, stainless"; "Austenitic stainless steels", not "Stainless steels, austenitic".

In general, the most specific or precise terms are used for main headings: "Shielded arc welding" rather than simply "Arc welding" or "Welding". A user interested in all types of arc welding, for example, will be led to "Shielded arc welding: by means of a "see" or "see also" reference: "Arc welding, see also Shielded arc welding".

General principles for selecting main headings and subordinate headings: In order to make the index as consistent as possible, a few general rules have been established to guide indexers in determining which concepts to enter as main terms and which as subordinate terms. These rules are not hard and fast, and the indexer is generally guided by the major emphasis of the document.

These rules are based on classifying metallurgical concepts into six categories: **materials, processes, properties, products, forms, influencing factors.** The rules for each are:

A. Materials are always primary terms, with processes performed upon them, their properties or forms (plate, forgings, etc.) entered as subterms.

B. Processes are indexed as primary terms when the main emphasis of the document is on the process, and materials are cited only as examples of the general application of the process. Materials are not used as subterms to processes.

C. Properties follow the same rule as for processes, except that the occasions for using them as primary terms are fewer since they are almost always tied to a material.

D. Products are frequently indexed as primary terms. Processes and properties of the product frequently appear as subterms. When combinations of products and materials occur together, both are often entered as primary terms. When the material primary term requires a subterm because of indexing density, the product may be so used, and vice versa. Decisions as to primary and subterms for combinations of products and materials were left to the discretion of the indexer.

E. Forms (Plate, Wire, Forgings, etc.) are indexed as primary terms only when a number of materials are concerned. Ordinarily the form will apply to a specific material only and is therefore a subterm.

F. Influencing Factors (effect of or effect on) are provided for by special entries in the ASM Thesaurus such as "Temperature effects", "Alloying effects", etc. These terms always appear as subterms and are attached only to processes and properties and not to materials.

AUTHOR INDEX

No special instructions or comments are necessary for use of the author index other than an understanding of the serial number of the abstract as explained above.

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BOX ANNEALING
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SEE ALSO CERIUM COMPOUNDS
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GADOLINIUM COMPOUNDS
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